



HABITAT CZIA PROJECT  
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REVISED ANADROMOUS STREAM CATALOG FOR  
SOUTHEASTERN ALASKA

Appendix B - District 2

Volume I

South End Area Survey Data

By:  
Paul Novak

1975

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v.1

DEPARTMENT OF FISH AND GAME  
Building, Juneau, Alaska 99801

James W. Brooks  
Commissioner

## ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revisions will be made via errata sheets. Major revisions will be made in the form of revised reports.

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REVISED ANADROMOUS STREAM CATALOG OF  
SOUTHEASTERN ALASKA

By

Paul Novak  
Alaska Department of Fish and Game,  
Division of Commercial Fisheries, 1975  
Ketchikan, Alaska

1975

Appendix B - District 2

(Volume I)

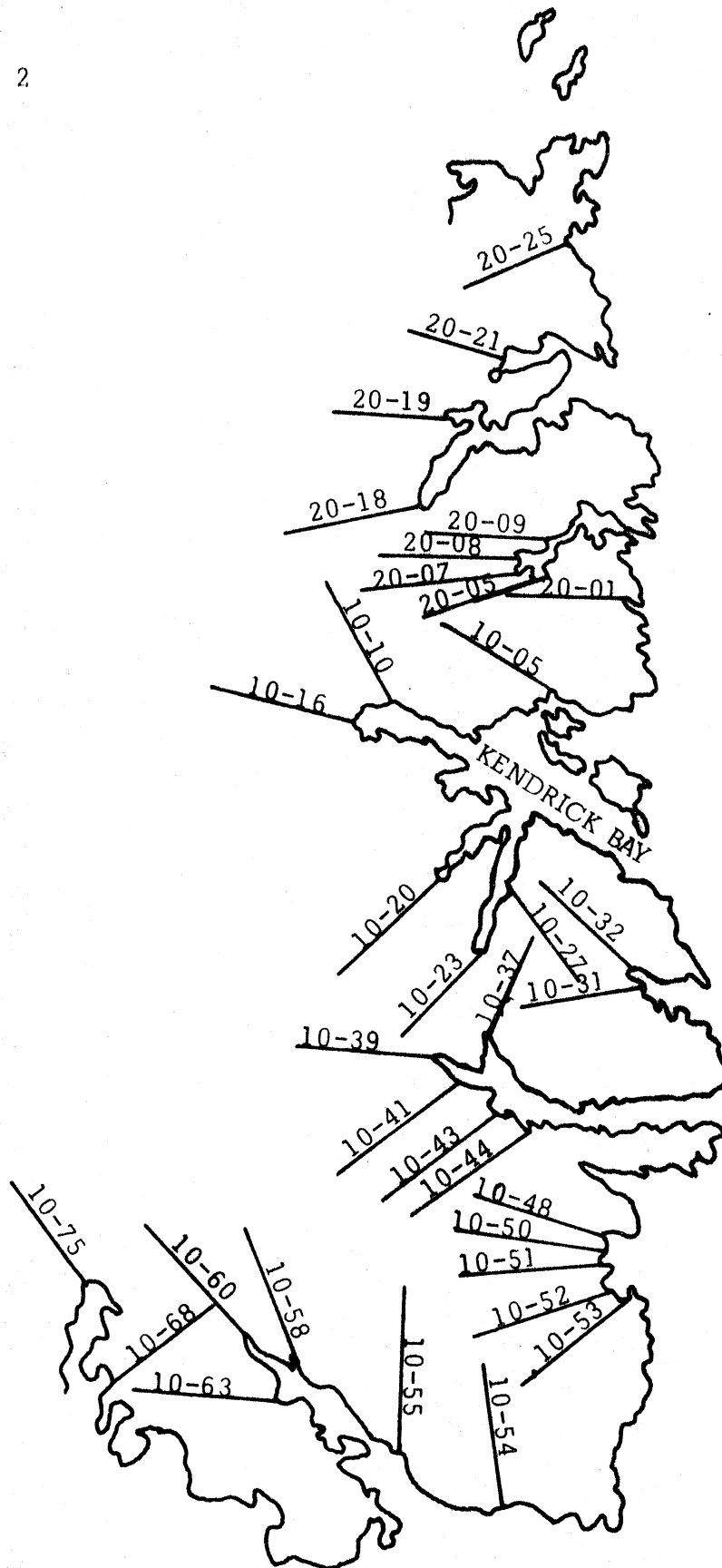
South End Area Survey Data

1. S.E. Alaska  
2. Hydrology  
3. Agency





Statistical Area 102  
South End - District 2



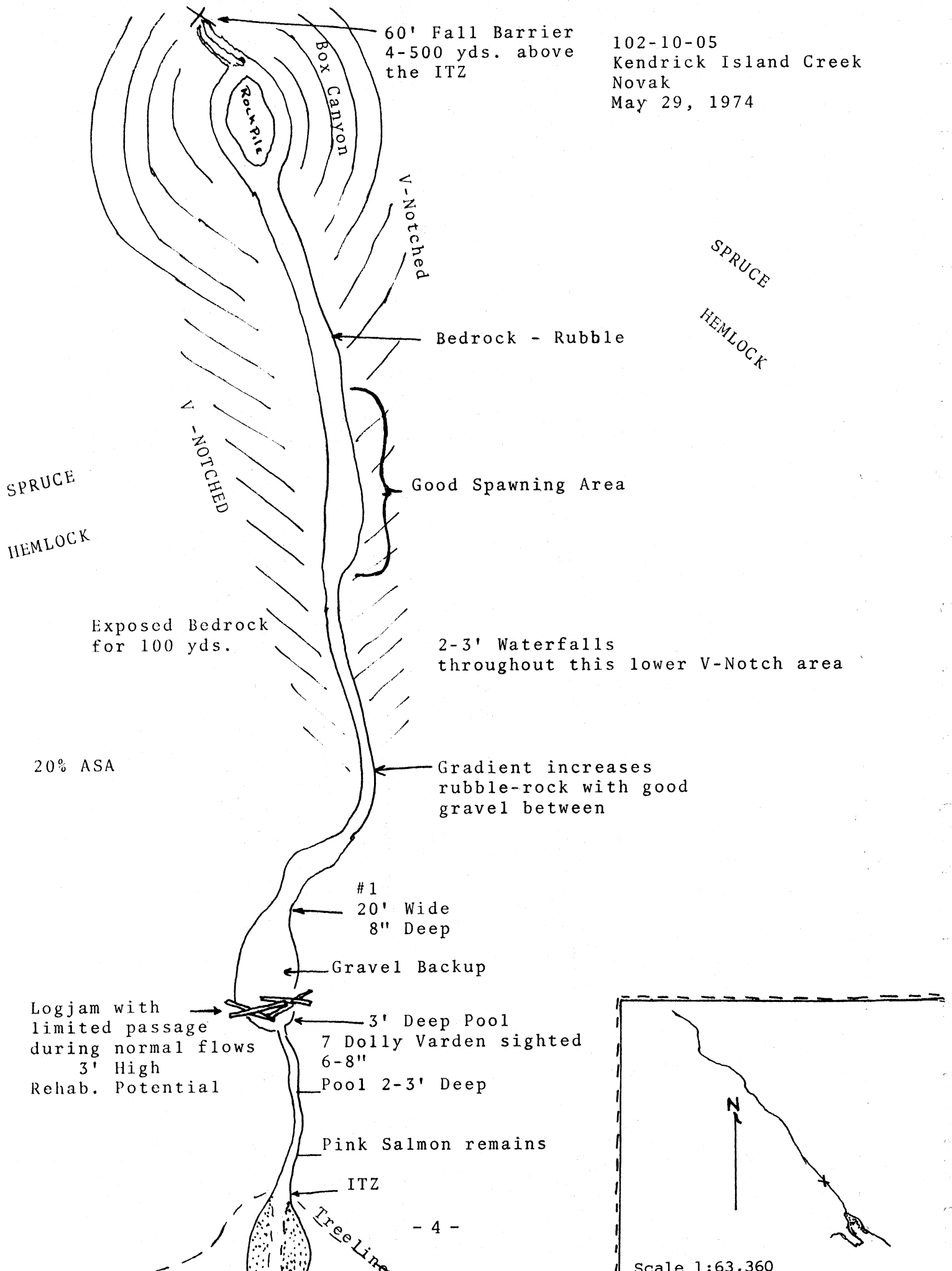
SUMMARY  
STREAM EVALUATION

DISTRICT 2

Name & Number	Average Width	Length	Area (Ft <sup>2</sup> )	M <sup>2</sup>	Spawning Area (m <sup>2</sup> )	Available Area (m <sup>2</sup> )
Kendrick Is. Cr. 102-10-05	20'	1500'	30,000	2787	20%	557
W.Arm Kendrick B. 102-10-10	15'	1055'	15,825	1470	40%	588
Short Arm 102-10-20	8'	675'	5,400	502	20%	100
S.Arm Kendrick 102-10-23	8'	900'	7,200	669	20%	134
102-10-27	12'	2700'	32,400	3010	15%	452
	4'	300'	1,200	111	45%	50
102-10-31	8'	450'	3,600	334	35%	117
102-10-32	NO SPAWNING POTENTIAL					
102-10-37	16'	450'	7,200	669	25%	167
(ITZ)	16'	375'	6,000	557	10%	56
Hd. McLean Arm 102-10-39	12'	1200'	14,400	1338	50%	669
(ITZ)	12'	600'	7,200	669	95%	636
S.McLean Arm 102-10-41	40'	975'	39,000	3623	10%	362
McLean Arm 102-10-43	15'	5280'	79,200	7358	40%	2943
S. McLean Arm 102-10-44	9.5'	525'	4,988	463	37.5%	174
(ITZ)	15'	300'	4,500	418	25%	105
Stone Rock Bay 102-10-48	40'	5000'	200,000	18,580	20%	3716
S.Stone Rock Bay 102-10-51	25'	1575'	39,375	3658	50%	1829
S.Side Stone Rock B. 102-10-52	8'	525'	4,200	390	60%	234
Nichols Bay 102-10-54	14'	1758'	24,612	2286	40%	914

Nichols Bay 102-10-55	20'	1700'	34,000	3159	17%	537
Nichols Bay 102-10-58	15'	1500'	22,500	2090	60%	1254
Nichols Bay Lake 102-10-60	65'	1050'	68,250	6340	10%	634
	75'	450'	33,750	3135	50%	1568
	75'	600'	45,000	4181	10%	418
Nichols Bay 102-10-63	4'	150'	600	56	50%	28
E. Bronson Bay 102-10-68	6'	225'	1350	125	5%	6
102-10-75	6'	300'	1800	167	60%	100
Low. Hidden Bay 102-20-01	5'	825'	4125	383	20%	77
So. Hidden Bay 102-20-05	7'	750'	5250	488	30%	146
Center Hidden Bay 102-20-07	14'	1500'	21,000	1951	40%	780
E. Hidden Bay 102-20-08	6'	1000'	6000	557	25%	139
N. Hidden Bay 102-20-09	4.3'	675'	2903	270	50%	135
	4'	75'	300	28	10%	3
Ingraham Bay 102-20-18	8'	225'	1800	167	25%	42
Ingraham Point 102-20-19	15'	600'	9000	834	50%	418
SOUTH END TOTAL						20,088

102-10-05  
Kendrick Island Creek  
Novak  
May 29, 1974



Name Kenrick Island Creek Catalog No. 102-10-05  
 Latitude 54°54'17" N WR No. \_\_\_\_\_  
 Longitude 132°01'22" W K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
 Location Kendrick Bay Watershed Length 2.25 miles  
 Drainage Area of Watershed 2.75 square miles  
 Water Supply Type Spring-runoff

Trails & Survey Routes Walk up stream for easiest survey route.

Aerial Survey Notes Overstory heavy, therefore, it may be impossible to survey from the air.

Anchorage Anchor large vessel on North side of entrance among Kendrick Islands in 6 fathom bay.

Tide Stage When Surveyed First half of flood

#### FISHERY RESOURCES

Commercial Fisheries Pink, chum, coho

Escapement Unknown

Available spawning area - 557 M<sup>2</sup>

Species Composition Unknown

Timing Middle

Schooling areas offmouth of stream in the bay

Shellfish Potential Clams sighted on the ITZ flats.

Sport Fisheries Dolly Varden and Coho

Land Use at Present None

History of Land Use None

Rehabilitation Potential Removal of the logjam barrier near the mouth of the stream.

Soils Stable below V-notch, but problems would arise if land use practices established in the V-notched section.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	1
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	90 yds.
	Estimate depth out from beach	10'
	Eel grass present on what percent of flats	2%

Observers: Novak

Observers: Novak  
Date: May 29, 1974

Name: Kendrick Island Creek

Temperature: 60°

Weather:

Number:102-10-05

Clear-Calm

Station No.

Pool Size/Type

Rifle Type

Width - Depth

Pool Rifle

Frequency

Bottom Type

(Rifle)

Color/Turbidity

## Velocity

Flow (C.F.S.)

Temp. (°F.)

H  
D

Fry Abundance

Benthos

Sample No.

## Higher Plant

Class

Aquatic Veg.

Density

Ident.

(1) Mosses

(2) Algae

General Remarks (rehab., land use, barriers, log jams, etc.):

The barrier in the lower section of the stream should be removed to increase available spawning area to pink and chum salmon.

## PEAK ESCAPEMENT RECORD

NAME: Kendrick Bay, N. shore 5 miles from head of W. arm

STREAM CATALOG NUMBER: 102-10-05

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 5, 1937	3,000			Very good escapement (G)
Aug. 2, 1947				Many coho fingerling: No adult.(G)

- 7 -

West Arm Kendrick Bay  
102-10-10  
Elton  
5-29-74

Some coho fry seen in lower  
sections of stream

50% spawning  
in this fork to a  
falls 200 yards  
upstream from forks.

8' wide  
4" deep

Road to uranium mine

Bedrock and boulders,  
no spawning

Cobble and  
boulders with  
pools on this fork.

15' wide  
5" deep

75% spawning in  
this 50 yards  
(cobble and bed-  
rock)

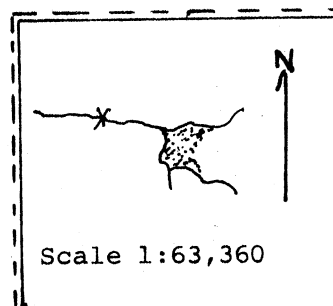
20' wide  
4" deep

100% spawning in  
this 25 yard area

Picture book area for spawning

10' wide x 6" deep

75% spawning in  
this 30 yards of  
IT (cobble)





Name \_\_\_\_\_ Catalog No. 102-10-10  
Latitude N 54° 54' 17" WR No. \_\_\_\_\_  
Longitude W 132° 05' 56" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
Location W. Arm Kendrick Bay Watershed Length \_\_\_\_\_  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible

Anchorage Good anchorage in Kendrick Islands

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 588 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential ??

Sport Fisheries No data

Land Use at Present Near stream mouth is large landing area to supply mining activities in Kendrick Bay - a road passes close to main stream.

History of Land Use Mining for past 20 years

• Rehabilitation Potential None

Soils Stable to point walked

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>2</u>
	Eel grass present on what percent of flats	<u>0</u>

Name Head West Arm Catalog No. 102-10-16  
 Latitude N 54° WR No. 122C  
 Longitude W 132° 06' 54" K No. 124  
 Geodetic Map No. Craig D-1 Work Area Ketchikan  
 Location Kendrick Bay - W. Arm Watershed Length 1.75 miles  
 Drainage Area of Watershed 9 square miles (polar planimeter)  
 Water Supply Type Springs and precipitation

Trails & Survey Routes Bokan Mountain road.

Aerial Survey Notes Intertidal survey are the only portion of the stream visible from the air.

Anchorage Good small craft anchorage is found in the West Arm but should be entered during low tide due to foul conditions.

Tide Stage When Surveyed 2nd half of ebb.

#### FISHERY RESOURCES

Commercial Fisheries Chum, coho and pink

Escapement 100 chum - 1961. 300 fish observed off mouth.

Species Composition 90% chum (estimated)

Timing Late

Schooling areas Pools upstream provide schooling habitats.

300 chum observed off mouth in 1961.

Shellfish Potential Clam beds on intertidal section are the only known shellfish potential.

Sport Fisheries Coho, Dolly Varden and Cutthroat should be found in the stream in limited numbers.

Land Use at Present None

History of Land Use None documented.

Rehabilitation Potential No rehab. needed. Three falls 250 yds. upstream (15' high) block all salmon migrations.

Soils Stable at present time but will present erosion problems if land use practices encouraged.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	-
	Number of droppings	-
Geese -----	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mallards ---	Number seen on tide flats	-
	Number seen up creek	-
	Number of broods seen	-
Mergansers -	Number of broods seen	-
Bald Eagles-	Number seen along creek	-
	Number of nests seen and location	-
Seals -----	Number seen at mouth of stream	-
Tide flats -	Estimate length along beach	300'
	Estimate depth out from beach	15'
	Eel grass present on what percent of flats	1-2%

# PEAK ESCAPEMENT RECORD

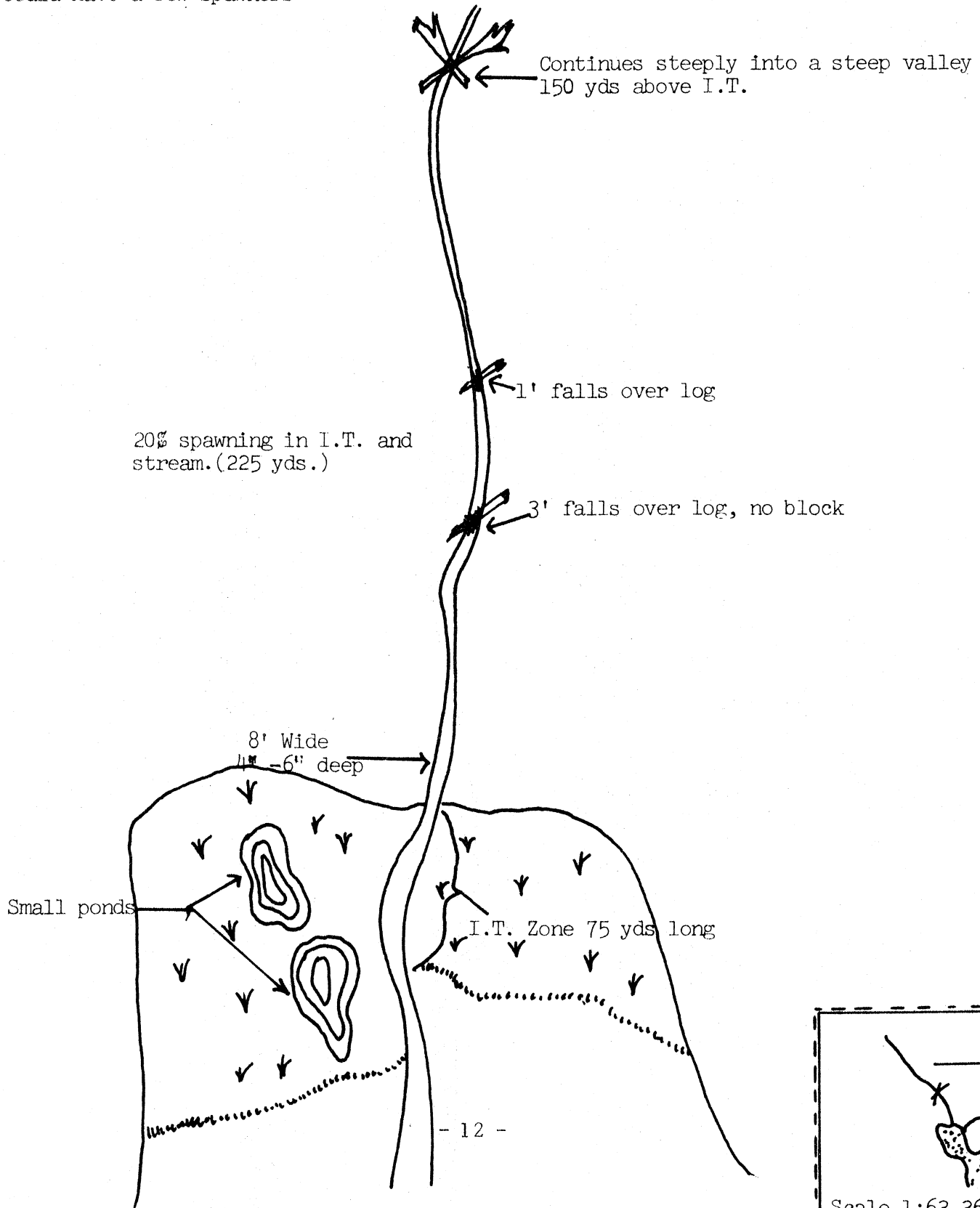
NAME: Kendrick Bay, West Arm Head

STREAM CATALOG NUMBER: 102-10-16

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Oct. 5, 1937	3,000			Large escapement for this stream (G)
Sept. 5, 1947				Few fingerling. No adult salmon (G)
Sept. 6, 1962				900 fish off mouth. Vis. poor (A)
Aug. 29, 1963				A few present (A)
Sept. 8, 1964	N.O.			(A)

102-10-20  
Head of Short Arm  
(Kendrick Bay)  
Downey  
5-28-74

Not an excellent stream but it  
could have a few spawners



Name \_\_\_\_\_ Catalog No. 102-10-20  
 Latitude 54°51'37" WR No. \_\_\_\_\_  
 Longitude 132°4'15" K No. K123A  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
 Location Head of Short Arm in Kendrick Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_ Bay \_\_\_\_\_  
 Water Supply Type Spring and runoff

Trails & Survey Routes Follow the stream

Aerial Survey Notes Overstory and small

Anchorage See Coast Pilot and Navigational Charts for Kendrick Bay - there is a good anchorage in the Kendrick Islands

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data - this stream has been checked 3 times, once by FRI, then by Fish and Wildlife, and then Fish & Game - no fish were  
 Escapement Available spawning area - 100 M<sup>2</sup> see

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None-rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Soil grass present on what percent of flats	?

# PEAK ESCAPEMENT RECORD

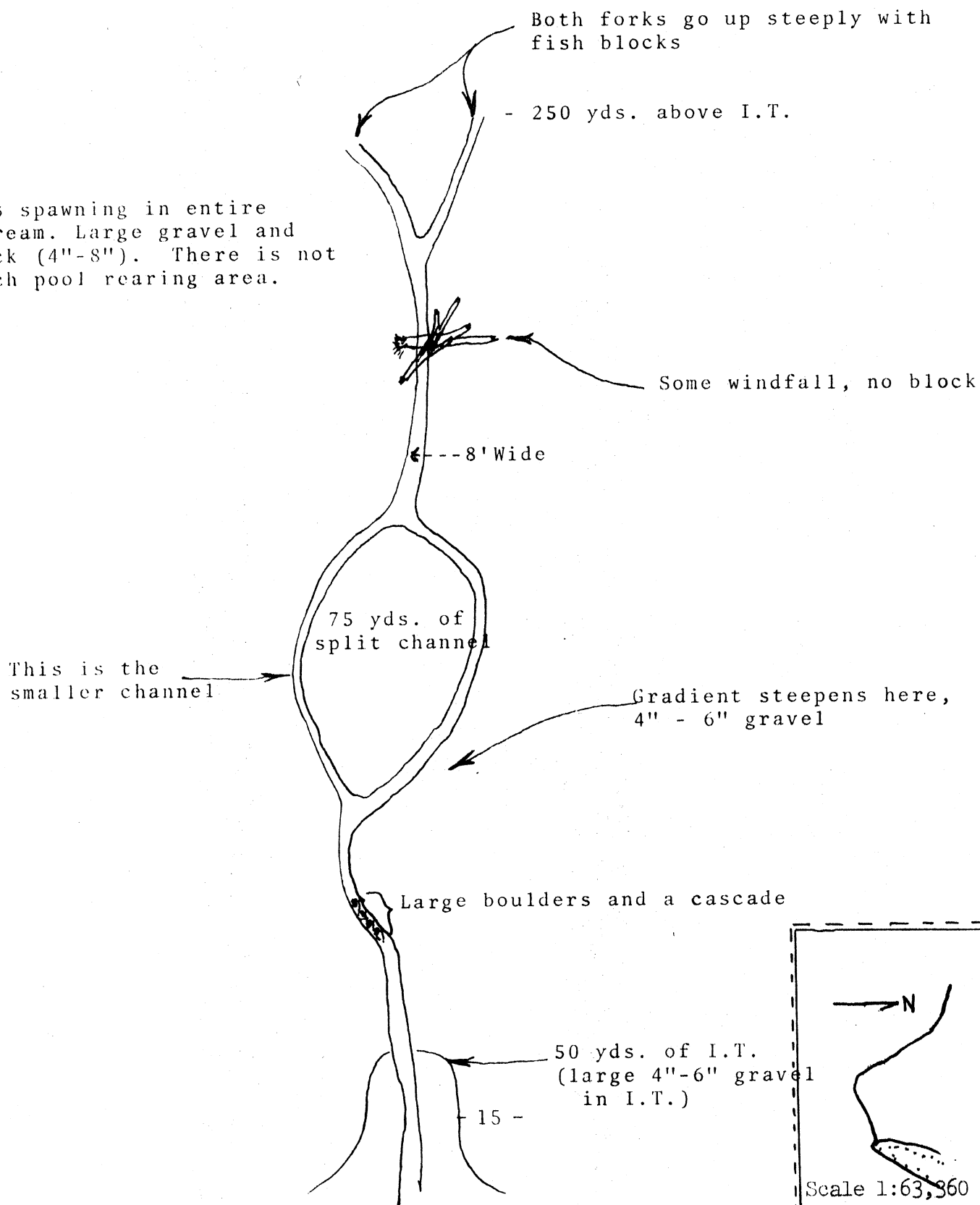
NAME: Kendrick Bay, Short Arm, Head

STREAM CATALOG NUMBER: 102-10-20

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 5, 1947				No fish (G)
Aug. 17, 1965				Vis. good. Stream low. (A)
Oct. 8, 1970		62	1 coho	Vis. good. 400 dead chum (F)
Aug. 31, 1972	N.O.			Vis. fair (A)

102-10-23:  
Head of South Arm  
Kendrick Bay  
Downey  
May 28, 1974

20% spawning in entire  
stream. Large gravel and  
rock (4"-8"). There is not  
much pool rearing area.



Name \_\_\_\_\_ Catalog No. 102-10-23  
 Latitude 54°50'18" WR No. \_\_\_\_\_  
 Longitude 132°02'30" K No. 123  
 Geodetic Map No. \_\_\_\_\_ Work Area Ketchikan  
 Location Head of S. Arm of Kendrick Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Spring and runoff

Trails & Survey Routes This stream is easy to survey by foot when walking on the stream.

Aerial Survey Notes -

Anchorage Refer to Coast Pilot and Navigational Charts

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries The only survey taken in which fish were spotted was Sept. 20, 1961 by air-100 chums in stream and 300 at mouth.  
 Escapement Available spawning area - 134 M<sup>2</sup>

Species Composition Only chums were seen in 1960

Timing Appears to be late

Schooling areas Mouth

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

#### GAME RESOURCES

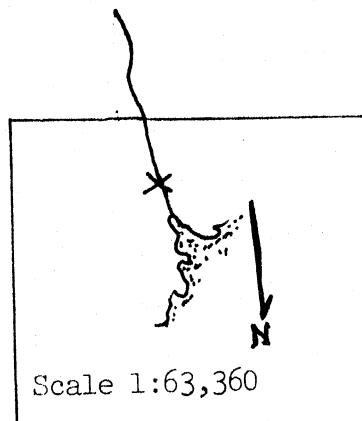
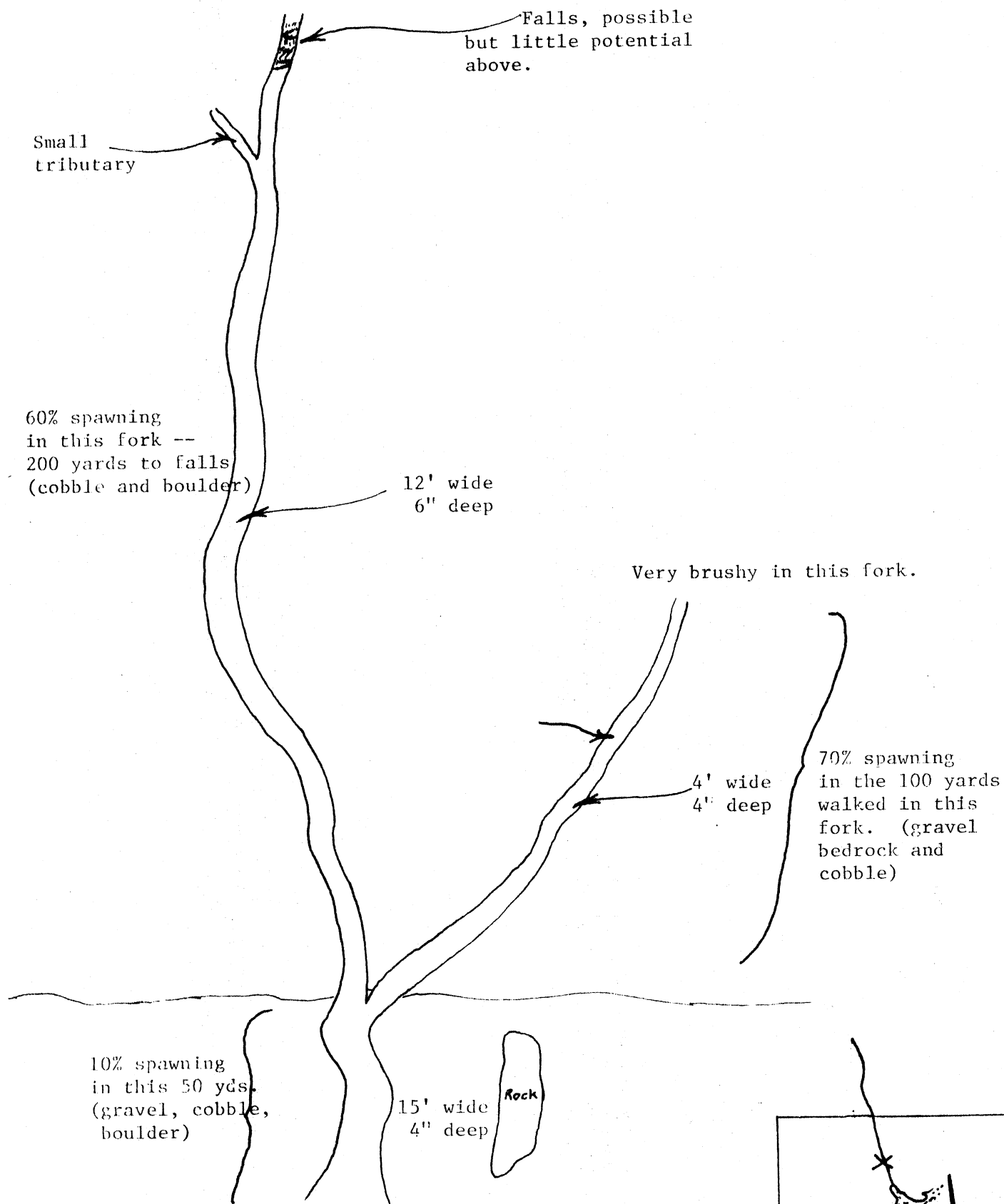
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-



NAME: Kendrick Bay, South Arm, Head

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 6, 1947				No fish or signs of fish seen(G)
Sept. 20, 1961		100		300 fresh fish at mouth (A)
Aug. 29, 1963	N.O.			(A)
Aug. 17, 1965	N.O.			Vis. good. Stream low (A)

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Name \_\_\_\_\_ Catalog No. 102-10-27  
Latitude N 54° 51' 10" WR No. \_\_\_\_\_  
Longitude W 132° 02' 30" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
Location \_\_\_\_\_ Watershed Length \_\_\_\_\_  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible, small with a lot of overstory

Anchorage Good anchorage in Kendrick Islands

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 452 M<sup>2</sup>

Available spawning area - 50 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas \_\_\_\_\_

Shellfish Potential None (rocky)

Sport Fisheries Unknown

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

#### GAME RESOURCES

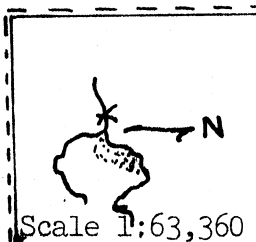
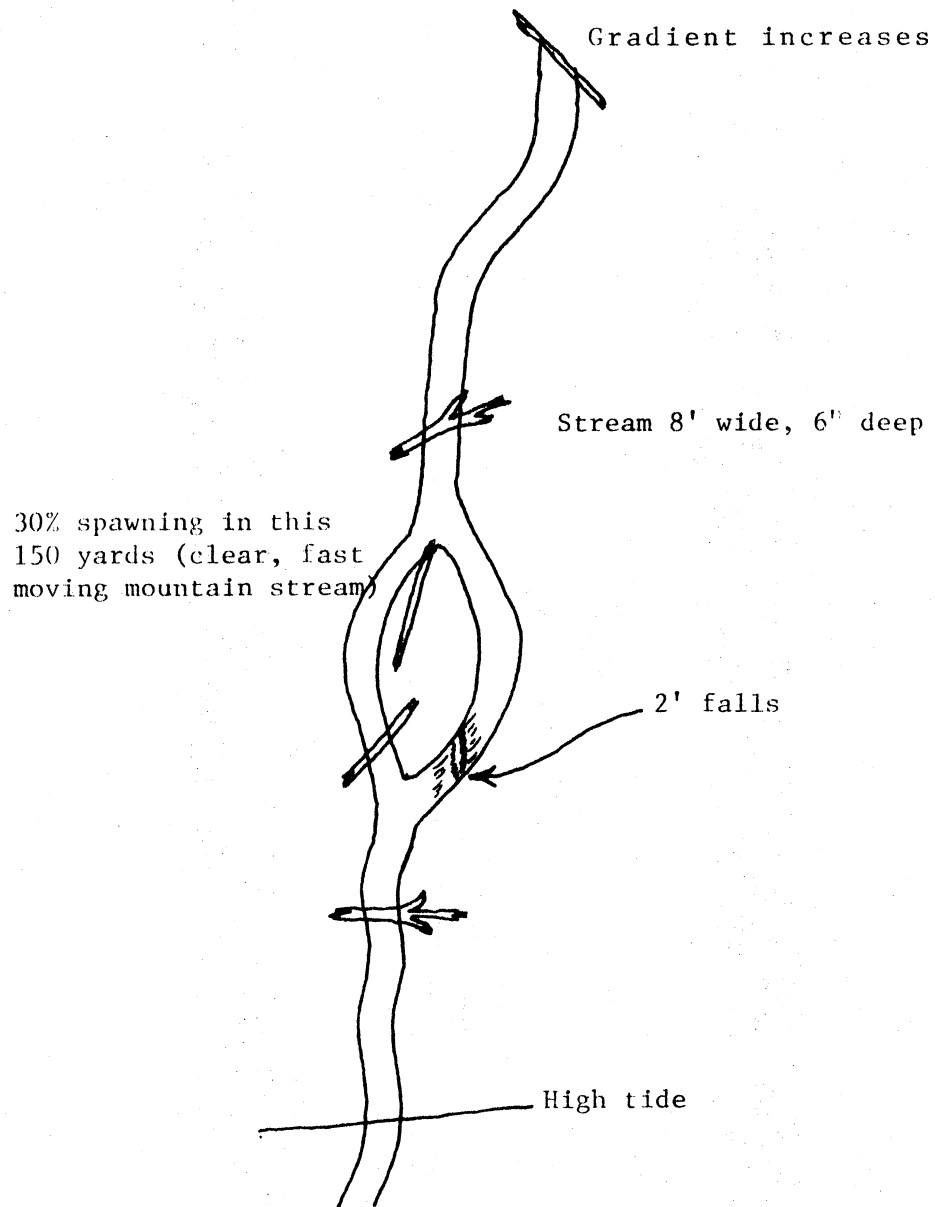
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

NAME: Kendrick Bay, South Arm 1 mile from head

STREAM CATALOG NUMBER: 102-10-27

- 20 -

102-10-31



Name \_\_\_\_\_ Catalog No. 102-10-31  
 Latitude N 54° 49' 53" WR No. \_\_\_\_\_  
 Longitude W 131° 59' 55" K No. \_\_\_\_\_  
 Geodetic Map No. Prince Rupert D-6 Work Area Ketchikan  
 Location Gardner Bay (head) Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Spring, runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible

Anchorage See Coast Pilot for anchorage in Gardner Bay

Tide Stage When Surveyed High

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 117 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

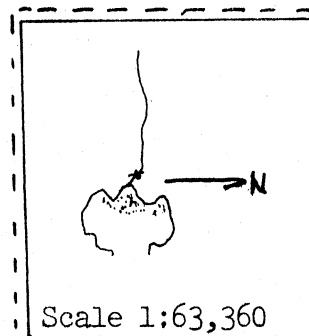
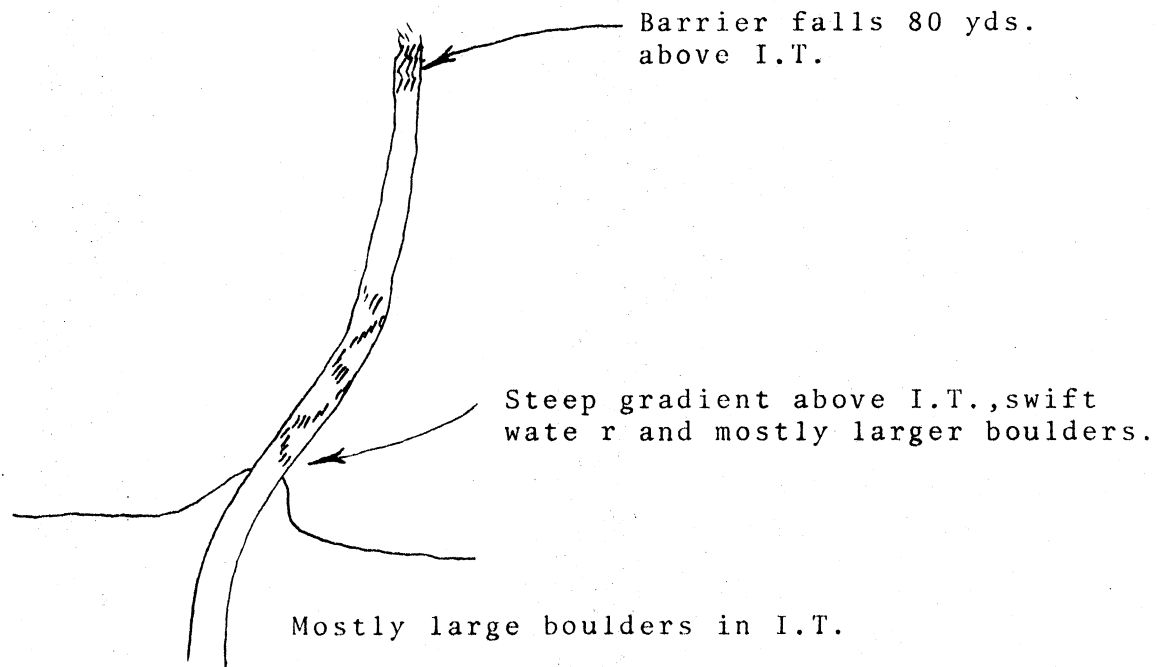
Soils Stable to point walked.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-10-32  
Head of Gardner Bay  
Downey  
May 27, 1974

This stream has almost 0% fisheries potential.  
The gradient is very steep.



Name \_\_\_\_\_ Catalog No. 102-10-32  
 Latitude 54°49'44" WR No. \_\_\_\_\_  
 Longitude 132°00'02" K No. \_\_\_\_\_  
 Geodetic Map No. Prince Rupert D-6 Work Area Ketchikan  
 Location Head Gardner Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes No potential

Anchorage See Coast Pilot - good anchorage in front of stream

Tide Stage When Surveyed Flood

#### FISHERY RESOURCES

Commercial Fisheries No potential

Escapement No potential

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential No potential - rocky

Sport Fisheries None

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

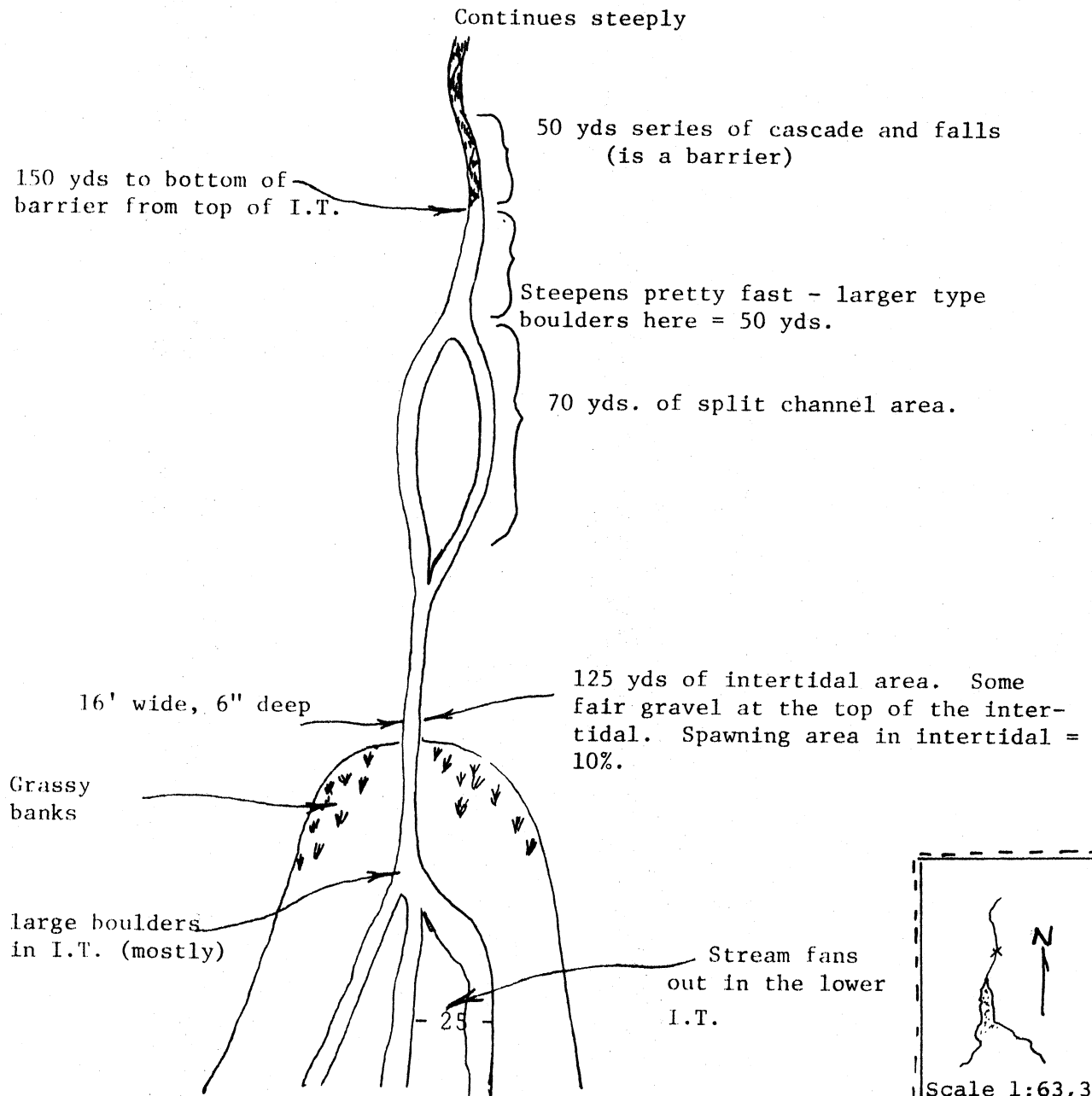
#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth cut from beach	-
	Eel grass present on what percent of flats	0



McLean Arm - Head N. Arm  
102-10-37  
Downey  
5-27-74

Not too much debris in the stream. 25% spawning area for the entire stream. Walk in the stream. Normal flow.



Name \_\_\_\_\_ Catalog No. 102-10-37  
Latitude N 54° 49' 10" WR No. \_\_\_\_\_  
Longitude W 132° 03' 23" K No. 122A  
Geodetic Map No. Dixon Ent. D-1 Work Area Ketchikan  
Location McLean Arm - Head N. Arm Watershed Length 1.75 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, springs, lake system.

Trails & Survey Routes Fairly brushy with some debris in the stream - walk mostly in the stream.

Aerial Survey Notes Too small to aerial survey above the I.T.Z.

Anchorage At the head of McLean Arm or preferably in Gardner Bay. See navigation chart #8145 and refer to the Coast Pilot.

Tide Stage When Surveyed About high tide.

#### FISHERY RESOURCES

Commercial Fisheries Pink

Escapement 1,000 pinks on 9-20-30 Available spawning area (Upper) - 167 M<sup>2</sup>

Available spawning area (ITZ) - 56 M<sup>2</sup>

Species Composition 100% pinks.

Timing Late

Schooling areas Off the mouth

Shellfish Potential Fairly rocky - could be some potential in the extreme lower I.T.Z. but don't believe this would amount to too much

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to the point where I stopped walking.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	
	Estimate depth out from beach	
	Bel grass present on what percent of flats	

## PEAK ESCAPEMENT RECORD

NAME: McLean Arm, Head of N. arm

STREAM CATALOG NUMBER: 102-10-37

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 20, 1930	1,000			1,500 fish off mouth (G)
Aug. 29, 1947				No fish or carcasses seen (G)
Aug. 27, 1969	N.O.			(F)

- 27 -

Scale 1:63,360

N

Head McLean Arm  
102-10-39  
Downey  
5-27-74

Stopped here - 400

yds. above the top of the  
I.T.Z.

Falls  
over log-  
no block

continues steeply

12' wide and 8" deep  
Also large gravel  
here = 8"

Split channel area again - this  
channel does return to the main  
stream above.

1 unidentified and  
2 coho fry.

Just saw this channel - may be the one  
that comes out in the I.T.

This stream has some good  
small pool and side areas  
for rearing coho.

Banks brushy, walk in the  
stream, moderate debris  
in the stream also, so  
is a little difficult  
walking.

Braided here again for 30 yards.

8' wide and 4" deep

Stream at normal flow.

One channel here and larger gravel = 6'

Overall stream spawning  
area = 50%

Split channel area: Looks like some  
high flows have occurred here with  
piles of gravel and some channel  
changes

14 coho fry seen in this side pool.

Some debris -  
no block

50 yards of split channel area.  
Good gravel 4" - 6".

Top of I.T., 200 yds with  
95% spawning area.

Good gravel 2"-4"

12' wide, 4" deep

Larger size tide flats.

This tributary connects with the main  
stream somewhere.

GRASS

GRASS

Name Head McLean Arm Catalog No. 102-10-39  
Latitude 54°48'58" WR No. \_\_\_\_\_  
Longitude 132°05'03" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
Location Head McLean Arm Watershed Length 1 5/8 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, springs

Trails & Survey Routes Banks are brushy-walk in the stream

Aerial Survey Notes Too small to survey above the ITZ zone

Anchorage At the head of McLean Arm or preferably in Garner Bay. See  
Navigation Chart #8145 and refer to the Coast Pilot.

Tide Stage When Surveyed 1/4 in and flooding

#### FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement Surveyed by Jim Barry on 8/31/72 with no fish observed

Available spawning area (1st area) - 669 M<sup>2</sup>; Available spawning area (ITZ) - 636 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth

Shellfish Potential There could be some shellfish potential here as this  
is a larger type flats with more mud and grass on it.

Sport Fisheries None-too small

Land Use at Present None

History of Land Use Can't remember for sure-believe some of this has  
been logged.

Rehabilitation Potential None-too small and fish now have access to all  
they can use.

Soils Soils and stream banks are stable to the point where I stopped  
walking.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

## PEAK ESCAPEMENT RECORD

McClellan Arm, head

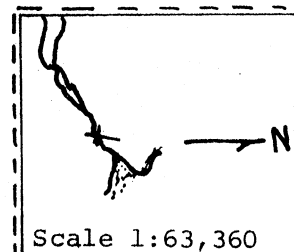
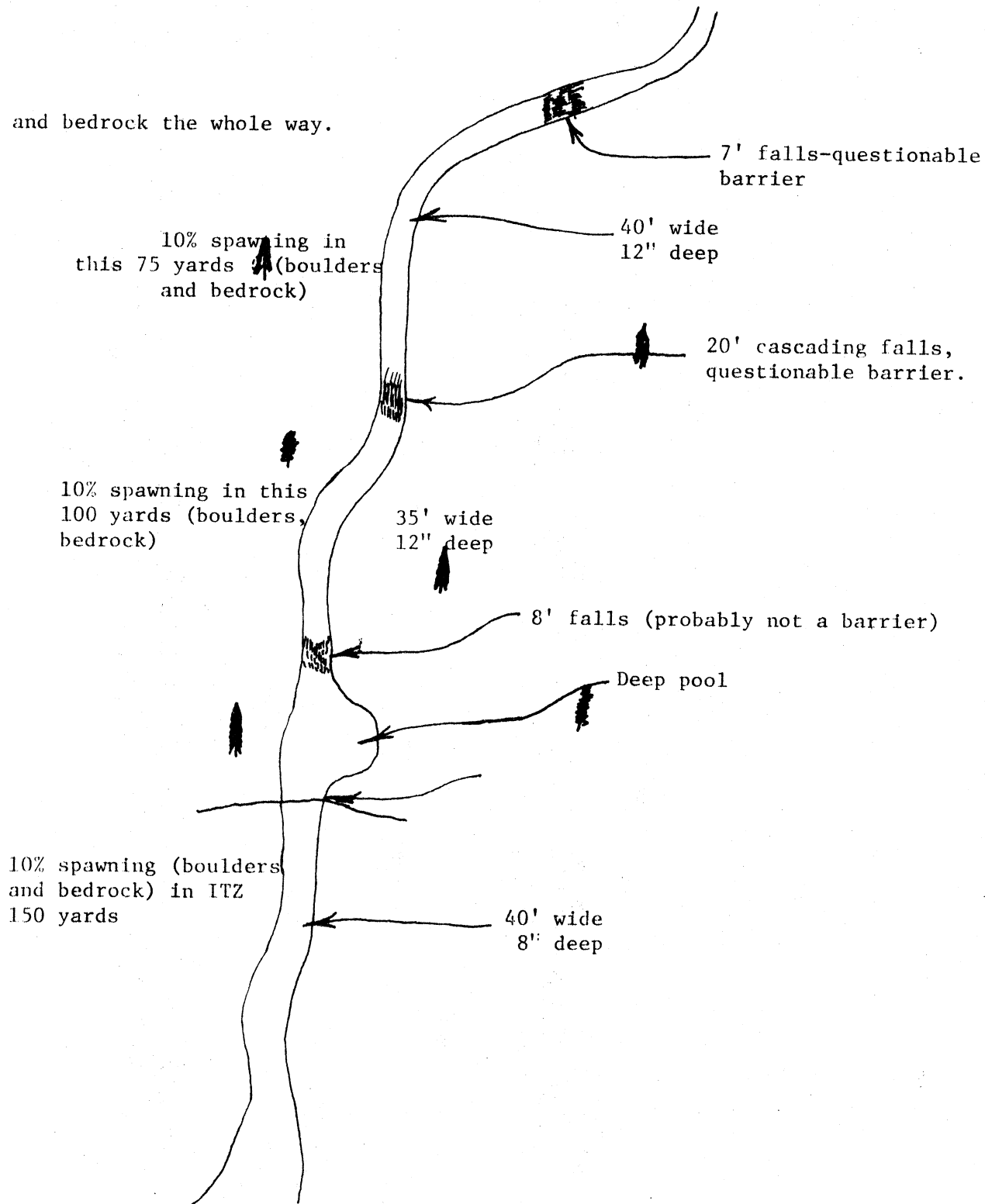
STREAM CATALOG NUMBER: 102-10-39

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 27, 1969	N.O.	.		(F)
Aug. 26, 1970	N.O.			Vis. poor (A)
Aug. 31, 1972	N.O.			Vis. fair (A)

- 30 -

South Shore McLean Arm  
102-10-41  
Elton  
5-29-74

Boulders and bedrock the whole way.



Name South Shore McLean Arm Catalog No. 102-10-41  
 Latitude 54° 48' 40" WR No. -  
 Longitude 132° 4' 40" K No. K121  
 Geodetic Map No. Dixon Entrance - D-1 Work Area Ketchikan  
 Location McLean Arm (S. Shore) Watershed Length   
 Drainage Area of Watershed   
 Water Supply Type Drains a lake.

Trails & Survey Routes Difficult to walk - walk in stream and come out on banks only when necessary.

Aerial Survey Notes

Anchorage See Coast Pilot for anchorage in McLean Arm by Gardner Bay.

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data - the only survey recorded was a F.R.I. survey in 1947 with no fish observed.

Escapement Available spawning area - 362 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils No soil , just rock

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Est. grass present on what percent of flats	0



12' W, 6"D → 1/2 mile, stopped here - assume stream continues as it - looks good.

100 yds. of typical stream area (as below)

McLean Arm

102-10-43

Downey

5-27-74

50 yds slow moving area some bedrock.

20 yds of bedrock, cascade area - no block

100 yds of massive wind-fall and debris in stream - no block

100 yds of typical stream area (as below).

100 yds slow moving water

Gravel generally pretty good throughout the stream.

Flat gradient

Tide just turned and flooding

20' wide and 2' deep

100 yds. typical stream area - some debris. Riffle-pool-riffle type stream. Good gravel.

40 yds. slow moving slough type area

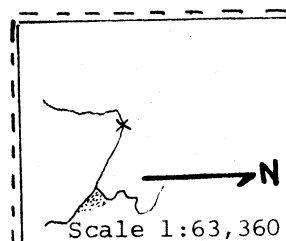
12' W and 6" D →

Heavy debris and split channel area - no block.

200 yds of good area: riffle-pool-riffle type area. 40% spawning area. Quite a bit of debris across stream - no block.

Top of I.T.

Cascade and bedrock area  
Large boulders in IT.



Name \_\_\_\_\_ Catalog No. 102-10-43  
Latitude N 54° 48' 07" WR No. \_\_\_\_\_  
Longitude W 132° 03' 27" K No. 121  
Geodetic Map No. Dixon Ent. D-1 Work Area Ketchikan  
Location McLean Arm Watershed Length 1.75 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, springs.

Trails & Survey Routes No trails, walk up the stream.

Aerial Survey Notes Would be impossible to aerial survey above the I.T.Z., due to size and overstory.

Anchorage At the head of M-Lean Arm or preferable in Gardner Bay - see navigation chart #8145 and refer to Coast Pilot

Tide Stage When Surveyed Just turned and flooding.

#### FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement Unknown

Available spawning area - 2,943 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth and pool area within the stream.

Shellfish Potential Fairly rocky - could be some potential in the extreme lower I.T. area - not much flats really.

Sport Fisheries Too small - except for some coho or possibly a few steelhead.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None needed - fish now have access to about what they could use anyway.

Soils Stable to the point where I stopped - flat gradient.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Bed grass present on what percent of flats	

# PEAK ESCAPEMENT RECORD

NAME:

McLean Arm, S. shore 2 miles from head of N.W. arm

STREAM CATALOG NUMBER:

102-10-43

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 28, 1947				No fish seen (G)
Aug. 29, 1963				200 fish present off the mouth of the stream (A)
Sept. 8, 1964	N.O.			Good vis.

South Shore, McLean Arm  
102-10-44  
Elton  
5-27-74

Above the beaver dam the stream is slow and silty, it drains a large meadow filled with trees killed by backed up water from the beaver dam.

Banks of stream mostly hemlock with some cedar.

2 coho fry were observed in the stream.

40% spawning (bedrock, boulder and cobble) in this 75 yards.

35% spawning (boulder and cobble) in this 100 yards.

25% spawning (boulder and cobble) in this 100 yards

Old beaver dam (no block)

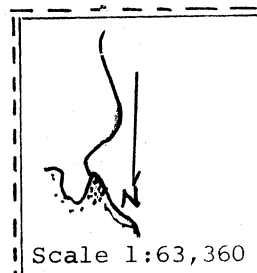
7' wide, 9" deep

Small 1-1/2' falls (no block)

12' wide, 7" deep

High tide line

15' wide  
5" deep



Name \_\_\_\_\_ Catalog No. 102-10-44  
 Latitude N 54° 47' 55" WR No. \_\_\_\_\_  
 Longitude W 132° 03' 08" K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
 Location S. Shore McLean Arm Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Muskeg

Trails & Survey Routes Good walking in the stream.

Aerial Survey Notes Heavy overstory and moss in stream - not feasible.

Anchorage Anchorage in McLean Arm or Gardner Bay (see Coast Pilot)

Tide Stage When Surveyed low

#### FISHERY RESOURCES

Commercial Fisheries No data available but 2 coho fry observed.

Escapement Available spawning area (1st area) - 174 M<sup>2</sup>

Available spawning area (ITZ) - 105 M<sup>2</sup>

Species Composition No data available.

Timing No data

Schooling areas No data

Shellfish Potential None - too rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable

#### GAME RESOURCES

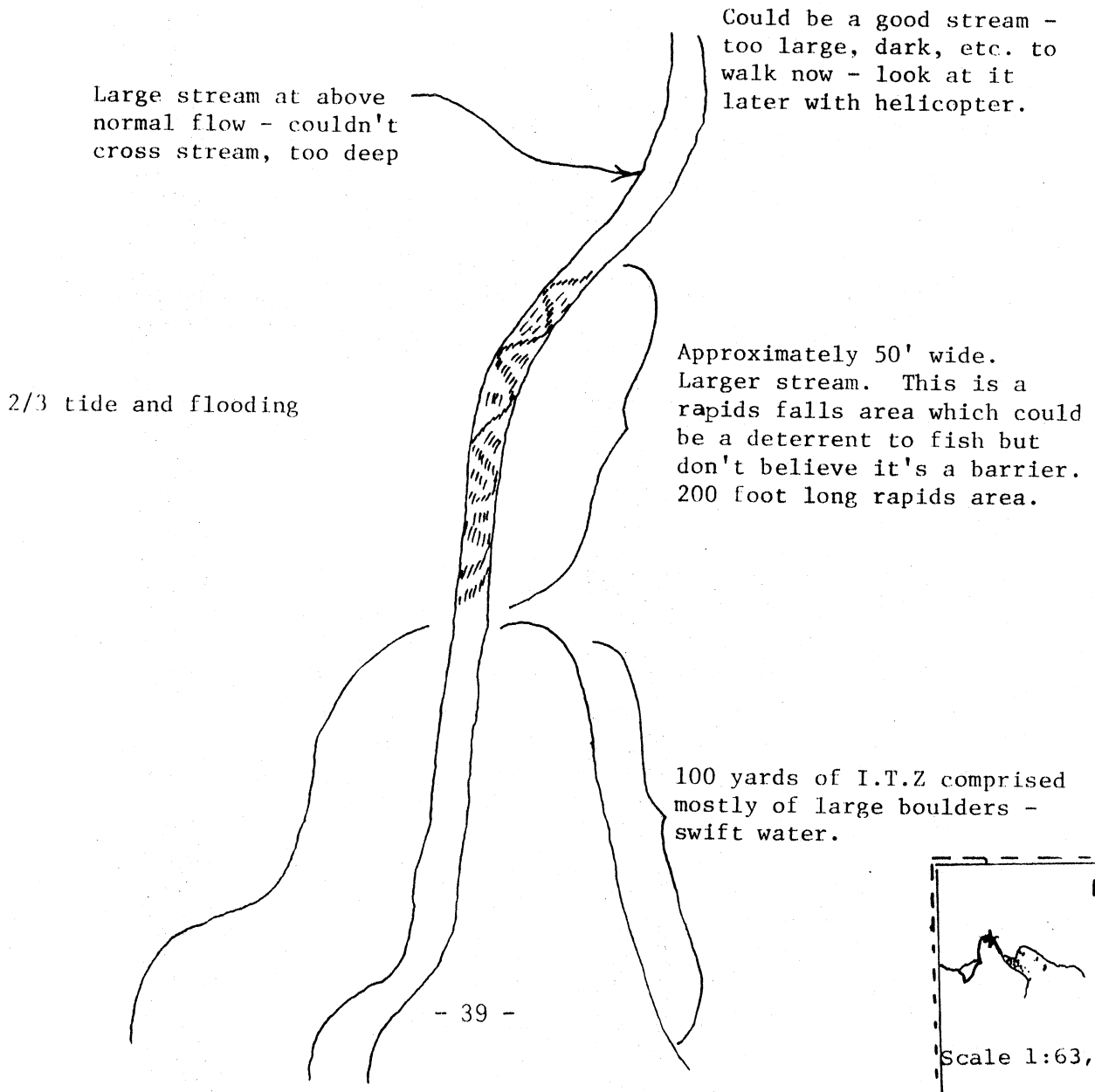
Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0



Stone Rock Bay  
102-10-48  
Downey  
5-26-74

The upstream area was surveyed by helicopter. Fish migrations are hampered by a barrier located approximately one mile above the mouth.

The south lake head stream is the only potential producer above the barrier, this stream flows from section Nos. 14 and 10. It is 8 feet wide, braided dark muskeg colored waters and has spruce hemlock timber bordering the banks.



Name \_\_\_\_\_ Catalog No. 102-10-48  
 Latitude N 54° 46' 08" WR No. 118B  
 Longitude W 132° 00' 48" K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Ent. D-1 Work Area Ketchikan  
 Location Stone Rock Bay Watershed Length 5 miles  
 Drainage Area of Watershed 6.3 sq. miles (polar planimeter)  
 Water Supply Type Precipitation, springs, lake systems

Trails & Survey Routes Walked to just above the falls, will finish later via helicopter.  
 Aerial Survey Notes Looks like it has darker water and probably impossible to survey from the air.  
 Anchorage Small craft anchor close to shore, but use of this bay for anything but temporary anchorage is not recommended. Run to McLean Arm or Gardner Bay.  
 Tide Stage When Surveyed 2/3 tide and flooding.

#### FISHERY RESOURCES

Commercial Fisheries Unknown - apparently never surveyed.

Escapement Unknown - apparently never surveyed.

Available spawning area - 3,716 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the mouth or pools within the stream.

Shellfish Potential I.T. appears to be pretty rocky - probably very little potential.

Sport Fisheries Unknown but this is a larger stream and could definitely have some potential.

Land Use at Present None

History of Land Use None

Rehabilitation Potential Falls would have to be checked out - it may be a deterrent but don't believe it's a total barrier.

Soils Haven't surveyed it yet - "probably" has flat gradient and stable soils (from the lake system).

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	
	Estimate depth out from beach	
	Red grass present on what percent of flats	



Stone Rock Bay

102-10-51

Downey

5-26-74

Probably very little access or utilization above this point very spread out. Lots of debris, windfall and brush. Smaller channels here = 2' wide, 6" deep.

Flat gradient to the point where I stopped.

Very nice stream and should be surveyed for salmon. Looked for coho fry in pools but saw none.

Water above normal flow.

1/2 tide and flooding.

150 yards above I.T. very good gravel in this area (2"-4"). Also a few good small pool areas. 80% spawning area here.

20' wide

25' wide

Stopped approx. 1/2 mile above the top of the I.T. area.

Very debris chocked area and extremely brushy - need to be a bear to get through here.

Seemed to lose this fork. Maybe goes underground. 75 yds from last note to here and this area has 20% spawning area.

100 yards of more split channel area. Forks here seem smaller.

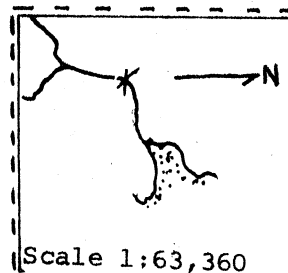
About 200 yds of very much split channel area. Can't follow them all and it may not look exactly like this. Brushy with lots of devils club - walk in the stream. Moderate debris. Still good riffles and gravel also. Good pools. 40% spawning area.

75 yards of split channel area. Some good riffles here and good quality gravel (1"-3"). Also some good pool and side rearing areas.

Some debris, no block

Grassy banks.

Top of I.T. = 12' wide and 6" deep. 20 yds of bedrock narrows.



Name \_\_\_\_\_ Catalog No. 102-10-51  
Latitude N 54° 45' 34" WR No. 118C  
Longitude W 132° 01' 00" K No. 120  
Geodetic Map No. Dixon Ent. D-1 Work Area Ketchikan  
Location Stone Rock Bay Watershed Length Approx. 1 mile  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, springs.

Trails & Survey Routes No trails and difficult walking due to brushy banks and debris in the stream -- walk in the stream.  
Aerial Survey Notes Would be impossible to survey except for I.T. area. Too small with overstory otherwise.  
Anchorage Small craft anchor close to shore, but use of this bay for anything but temporary anchorage is not recommended - run to McLean Arm or Garner Bay.  
Tide Stage When Surveyed 1/2 tide and flooding.

#### FISHERY RESOURCES

Commercial Fisheries None reported.  
Escapement None reported.  
Available spawning area - 1,829 M<sup>2</sup>  
Species Composition Unknown  
Timing Unknown  
Schooling areas Would be off the mouth and in pool areas within the stream.  
Shellfish Potential Very poor - rocky intertidal zone  
Sport Fisheries Probably none - no large pools and not that big a stream.  
Land Use at Present None  
History of Land Use None  
Rehabilitation Potential None - too small for much consideration.  
Soils Gradient flat and the soils were stable to the point walked.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide Flats -	Estimate length along beach	
	Estimate depth out from beach	
	Eel grass present on what percent of flats	

## PEAK ESCAPEMENT RECORD

NAME: Stone Rock Bay, S. tip of bay

STREAM CATALOG NUMBER: 102-10-51

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 20, 1930				2,000 chum, pink in stream (G)
Sept. 8, 1964				300 pinks at mouth. Vis good(A) Fair stream

End of survey, 250 yds. above H.T.

S. Side Stone  
Rock Bay  
102-10-52  
5/26/74  
Elton

0% spawning  
(boulders & bed-  
rock with steep  
gradient)

175 yds. from H.T.

20% spawning  
in this 25 yds.

150 yds. from H.T.

Undercut bank

8' Wide  
7" Deep

6' Wide  
6" Deep

5' Wide  
6" Deep

75 yds. from H.T.

75% Spawning in this  
150 yds. (cobble with  
some pools and bedrock).

8' Wide  
8" Deep

H.T. Line

50% spawning  
in this 30 yds.  
(boulder and  
gravel).

12' Wide  
6" Deep



Name \_\_\_\_\_ Catalog No. 102-10-52  
 Latitude 54°45'5" WR No. \_\_\_\_\_  
 Longitude 132°00'15" K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
 Location S. Side Stone Rock Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Runoff and spring

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible to survey by air.

Anchorage See Coast Pilot

Tide Stage When Surveyed Flood

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 234 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential ?

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Several undercut banks but otherwise stable to point walked.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

NAME: Stone Rock

STREAM CATALOG NUMBER: 102-10-52

STREAM CATALOG NUMBER: 102-10-52

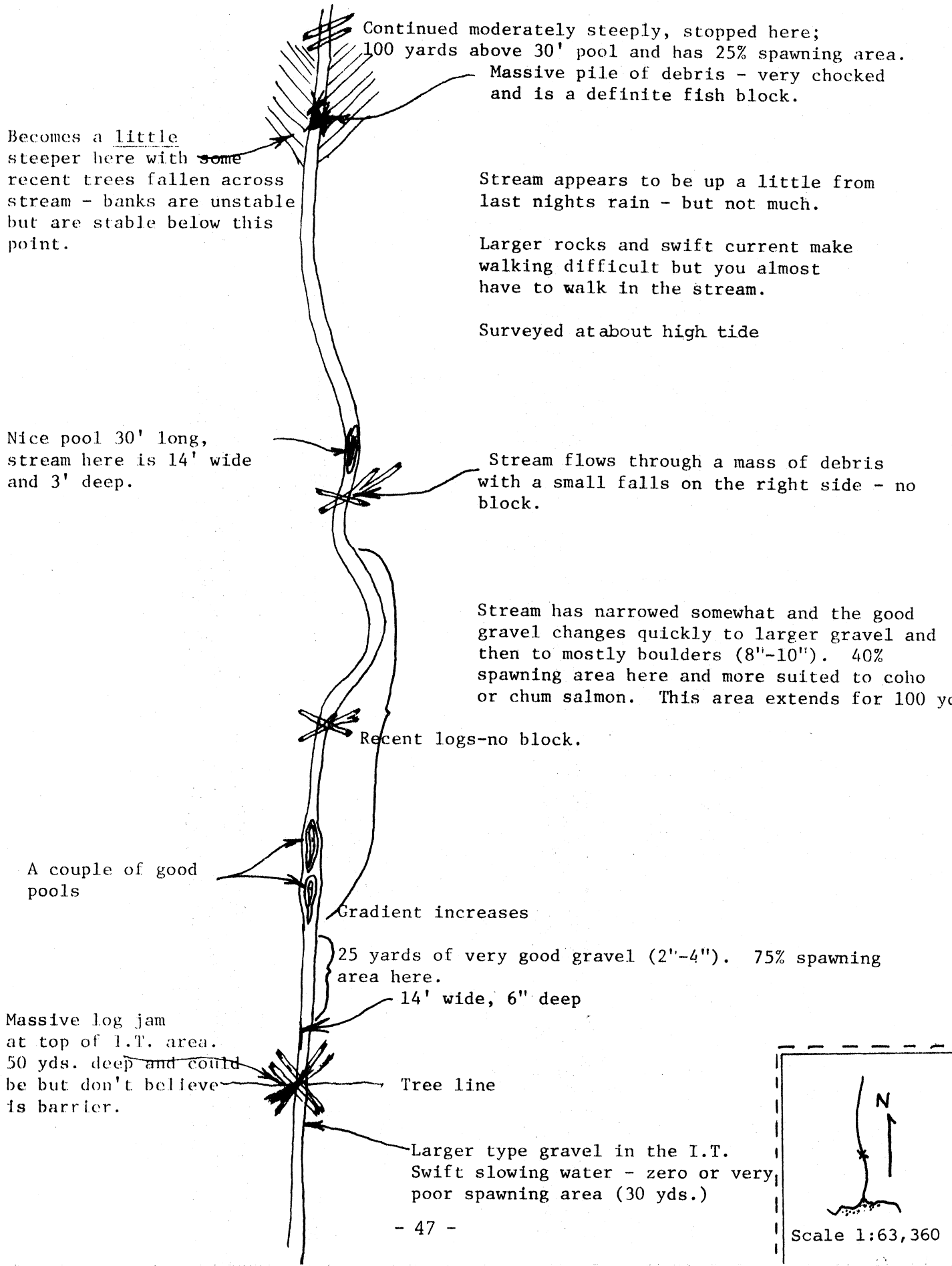
- 46 -

Nichols Bay

102-10-54

Downey

5-24-74



Name \_\_\_\_\_ Catalog No. 102-10-54  
Latitude N 54° 42' 13" WR No. \_\_\_\_\_  
Longitude W 132° 03' 32" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Ent. C-1 Work Area Ketchikan  
Location Between Nichols Bay & C. Chacon Watershed Length 1.25 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation and springs

Trails & Survey Routes Brushy banks, walk mostly in the stream.

Aerial Survey Notes Can't aerial survey due to small size and overstory.

Anchorage Good anchorage inside Nichols Bay - Refer to chart #8145 and Coast Pilot.

Tide Stage When Surveyed Half tide.

#### FISHERY RESOURCES

Commercial Fisheries Unknown

Escapement None recorded

Available spawning area - 914 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas Off the mouth and a couple of pool areas within the stream.

Shellfish Potential None - very steep and rocky intertidal zone.

Sport Fisheries Small stream - would be little, if any.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to point walked, with some steepness and slumpage starting at that point.

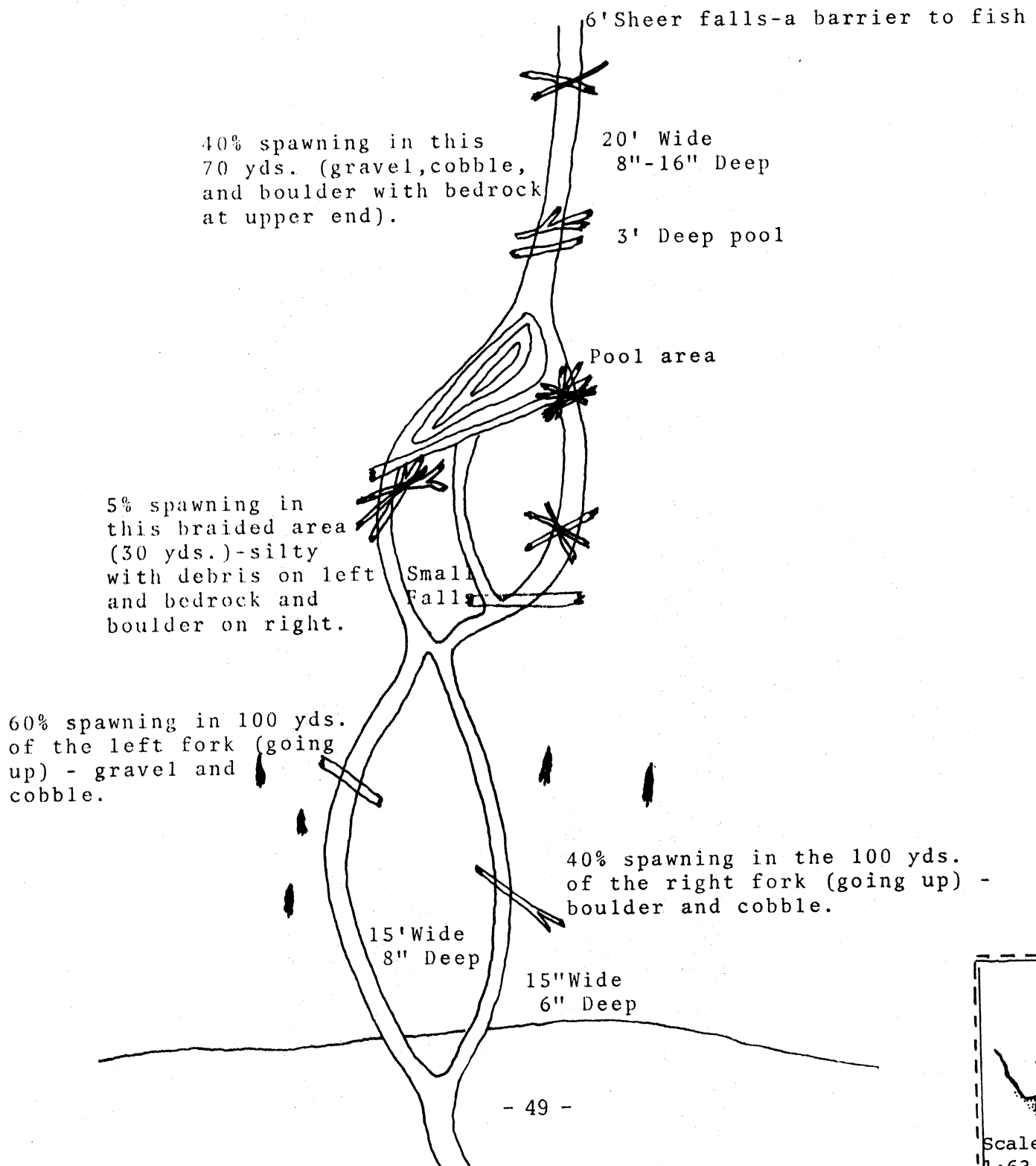
#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	2
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	40 yds.
	Eel grass present on what percent of flats	30 yds.



102-10-55  
Nichols Bay  
5/24/74

Elton



Name \_\_\_\_\_ Catalog No. 102-10-55  
 Latitude 54°43'3" WR No. \_\_\_\_\_  
 Longitude 132°6'20" K No. \_\_\_\_\_  
 Geodetic Map No. \_\_\_\_\_ Work Area Ketchikan  
 Location E. Side of Nichols Bay. Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible to survey by air - heavy overstory and small stream.

Anchorage Anchor in Nichols Bay - see Coast Pilot

Tide Stage When Surveyed High Tide

#### FISHERY RESOURCES

Commercial Fisheries No data available

Escapement Available spawning area - 537 M<sup>2</sup>

Species Composition No data available

Timing No data available

Schooling areas No data available

Shellfish Potential None-Rocky

Sport Fisheries No data available

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles--	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>-</u>
	Estimate depth out from beach	<u>-</u>
	Eel grass present on what percent of flats	<u>0</u>

Nichols Bay  
102-10-58  
Downey  
5-24-74

A very good stream and should have good fishery potential. Some good rearing areas for coho throughout (good pools and side areas.)

Water flowing through debris and over logs - 4' drop and is a fish block.

Easy stream to walk - walk in the stream.

Tide 2/3 out and ebbing  
Normal flow.  
Sunny day.

Looked for fry in the pools and side areas but saw none  
Good looking stream - one of the better ones in this area.

Spawning area for the entire stream = 60%

Continues steeply.

Steep - much slumpage and debris in stream. Stopped here, approx. 400 yds. above the top of the ITZ.

Log jam and probable barrier with water flowing thru debris.

Smaller channel - 3' wide and is blocked by debris (fish block).

Small tributary

Braided areas but good gravel throughout and generally each channel is 6' wide and 4"-6" deep with pools 2'-3' deep

12' wide: Top of I.T. = 100 yds. of good gravel but has some bedrock throughout. 50% spawning area.

16' wide



Name \_\_\_\_\_ Catalog No. 102-10-58  
Latitude N 54°44' 34" WR No. \_\_\_\_\_  
Longitude W 132° 08'56" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Ent. C-1 Work Area Ketchikan  
Location Nichols Bay (W. of Chacon) Watershed Length 1.75 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, springs.

Trails & Survey Routes Banks brushy but easy to walk in the stream.

Aerial Survey Notes Too small with overstory to survey except the I.T. area.

Anchorage Good anchorage inside Nichols Bay - refer to navigation chart #8145 and Coast Pilot.

Tide Stage When Surveyed 2/3 out and ebbing

#### FISHERY RESOURCES

Commercial Fisheries None recorded

Escapement None recorded

Available spawning area - 1,254 M<sup>2</sup>

Species Composition Unknown

Timing Unknown

Schooling areas Would be off the I.T. area and pools within the stream.

Shellfish Potential Appeared to be pretty rocky but could be a little in the lower I.T. area.

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

Soils Stable to the point walked but could be some slumpage above this as it continues up steeply from the point where I stopped.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	1
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	40 yds
	Estimate depth out from beach	100 yds
	Eel grass present on what percent of flats	

Fish block, 10' high  
Approximately  
2 miles above  
mouth of lake.

Upper Nichols Lake Creek  
102-10-60  
Novak.

Stream above block narrows  
to 20-25' and increases in  
velocity. No rehabilitation  
needed.

--Fish block as this tributary cascades  
off the hill.

MUSKEG

HEMLOCK

MUSKEG

- 65' wide  
Very dark colored water.

Slow moving water throughout  
the lower 2 miles of this  
stream.

Appears to have excel-  
lent red salmon spawning  
characteristics.

The lake may have good  
potential for rearing  
salmon.

1500 red salmon reported in  
the stream below Nichols  
Lake in 1956.

HEMLOCK

MUSKEG

#2

- 53 -

NICHOLS LAKE

N

Scale 1:63,360

NICHOLS  
LAKE

Nichols Lake

1/2 mile to lake from  
I.T.Z.

10% spawning (bedrock  
pools and interspersed  
cobble in this 200 yds)

75' wide, 10" deep

Nichols Bay - Nichols Creek  
102-10-60  
Downey - Elton  
5-26-74

50% spawning (cobble  
and slower water) in  
this 150 yards.

75' wide, 10" deep

0% spawning (bedrock and  
boulders) in this 200 yards)

65' wide, 12" deep

10% spawning in this 350  
yards (boulders, bedrock,  
and cobble)

3' wide tributary, 325 yds above I.T.Z.

Steep hillside

65' wide, 13" deep

Steep hillside

Station #1 (75 yds above I.T.Z.)

0% spawning in this 75 yards  
to station #1 (steep  
gradient with boulders  
and bedrock)

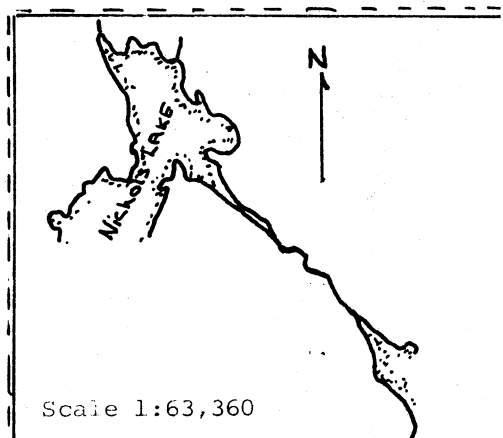
20' wide, 12" deep

Steep hillside

20' wide, 12" deep

I.T.Z. 500 yards.

Boulders and dark rock with some bedrock.  
No fisheries potential.



Name Nichols Creek Catalog No. 102-10-60  
 Latitude N 54° 44' 48" WR No. 118A  
 Longitude W 132° 10' 03" K No. 119  
 Geodetic Map No. Dixon Ent. C-1 & D-1 Work Area Ketchikan  
 Location Nichols Bay - head Watershed Length 4.5 Miles  
 Drainage Area of Watershed 11.2 sq. miles (polar planimeter)  
 Water Supply Type Lake

Trails & Survey Routes No trail but a fair game path on right side of stream, going upstream.

Aerial Survey Notes Hard to survey from the air because of dark rock bottom and mossy patches the length of the stream.

Anchorage Good anchorages marked on nautical chart. See Coast Pilot.

Tide Stage When Surveyed 1/2 ebb tide.

#### FISHERY RESOURCES

Commercial Fisheries Red, coho and pink peak year esc. for reds was 1956 with 2000, peak year for pinks, 1949 with 2000 pinks.

Escapement Available spawning area (1st stream section) - 634 M<sup>2</sup>; available spawning area (3rd stream section) - 1,568 M<sup>2</sup>; available spawning area (last section) - 418 M<sup>2</sup>

Species Composition Data too incomplete to determine.

Timing Mid July for reds, data too incomplete for timing schedule on pinks.

Schooling areas -

Shellfish Potential None - too rocky

Sport Fisheries Unknown - a big system and could have steelhead, cutthroat and Dolly Varden.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None needed.

Soils Steep in some areas of stream but banks fairly stable.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	6
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers --	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	75 yds.
	Estimate depth out from beach	500 yds.
	Eel grass present on what percent of flats	

Observers: Downey, Elton

Date: 5-26-74

Temperature:

Weather: Clear

Station No.	1	2
Pool Size/Type	2/1 65"W 13"D	2/2 65"W 12"D
Riffle Type		
Width - Depth		
Pool Riffle Frequency	3	2
Bottom Type (Riffle)	5/6	4/5
Color/Turbidity	2/2	3/2
Velocity	2	1
Flow (C.F.S.)	184.08	-
Temp. ( $^{\circ}$ F.)	54 $^{\circ}$	54
pH	5	5
WV Abundance	0	0
Benthos Sample No.	1001	-
Higher Plant Class	1	2
Aquatic Veg. Density Ident.	1 /	3 /
(1) Mosses (2) Algae	2	2

General Remarks (rehab., land use, barriers, log jams, etc.):



# PEAK ESCAPEMENT RECORD

NAME: Nichols Creek

STREAM CATALOG NUMBER: 102-10-60

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 4, 1949	2,000			(G)
Aug. 26, 1955			100 red	(A)
July 8, 1956			1,500 red	500 red at mouth
Aug. 25, 1956				3,000-5,000 coho, pink
July 22, 1957			3,000 red	
Sept. 1, 1961				No fish observed off mouth (A)
Sept. 1, 1961				Fish present in inlet and outlet. Vis. poor. (A)
Aug. 29, 1963				200 fish present at the mouth of the stream. (A)
Sept. 8, 1964	couple			Vis. good. (A)
Sept. 1, 1966				5-10,000 pinks at mouth of stream Showing exceptionally well. (F)

Nichols Bay  
102-10-63  
Downey  
5-24-74

A small stream at normal flow and could support a few spawners (30-50 at a guess) but I'd say it generally had very poor or almost no fishery potential.

About 1/2 tide and ebbing, sunny day.

15' barrier falls  
50 yds above top of intertidal.

4' wide and 4"-6" deep

Large gravel and boulders start here.

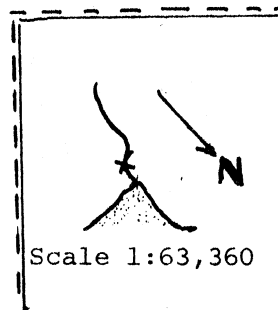
Some fair gravel here and could support a few spawners.

Flows under this small area of debris underground.

G R A V E L  
B A R

2' wide and 2" deep

4' wide, 4" deep



Name \_\_\_\_\_ Catalog No. 102-10-63  
 Latitude N 54° 43' 57" WR No. \_\_\_\_\_  
 Longitude W 132° 09' 24" K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Ent. C-1 Work Area Ketchikan  
 Location Nichols Bay (W. of Chacon) Watershed Length Approx. 5/8 mile  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Precipitation, springs

Trails & Survey Routes Doesn't go very far to a falls - can walk in the stream.

Aerial Survey Notes Too small with oversotry to survey all but the intertidal by air.

Anchorage Good anchorage inside Nichols Bay - refer to navigation chart #8145 and Coast Pilot.

Tide Stage When Surveyed 1/2 tide and ebbing

#### FISHERY RESOURCES

Commercial Fisheries None recorded

Escapement None recorded

Available spawning area - 28 M<sup>2</sup>

Species Composition None recorded

Timing Unknown

Schooling areas Would be off the mouth

Shellfish Potential Could be a little - some grass and mud at the lower intertidal area.

Sport Fisheries None - too small

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - too small

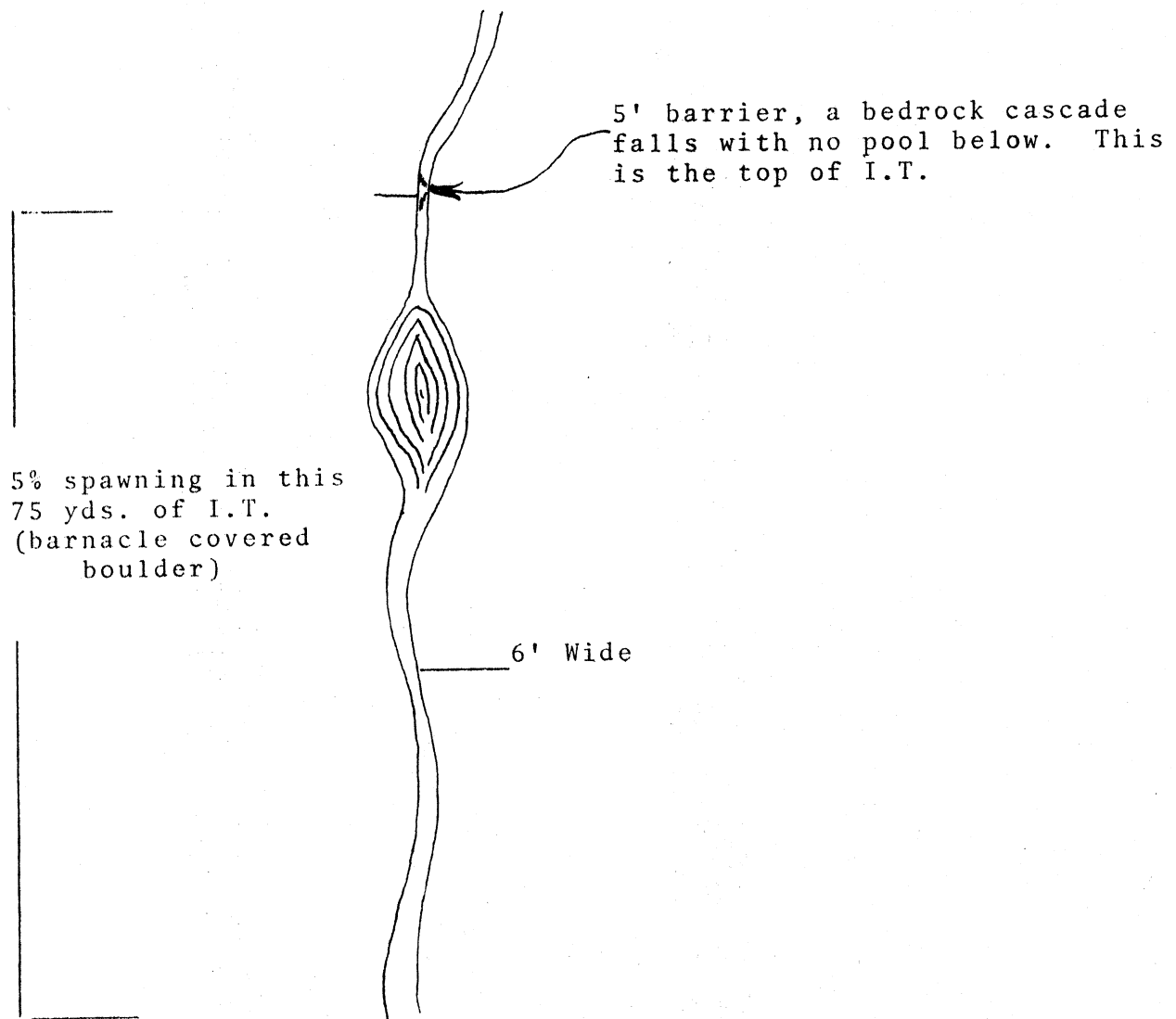
Soils Stable to the point walked but could be some slumpage above this at it goes uphill steeply.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ---	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles-	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>      </u>
	Estimate depth out from beach	<u>      </u>
	Eel grass present on what percent of flats	<u>      </u>

102-10-68  
East Side Bronson  
Bay  
May 24, 1974  
Downey

\*This stream is not shown on the navigational chart.



Name \_\_\_\_\_ Catalog No. 102-10-68  
 Latitude 54°44'33" WR No. \_\_\_\_\_  
 Longitude 132°13'37" K No. \_\_\_\_\_  
 Geodetic Map No. Dixon Entrance C-1 Work Area Ketchikan  
 Location East Side Bronson Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Muskeg and runoff

Trails & Survey Routes Follow the stream

Aerial Survey Notes The only area with potential is the I.T. zone

Anchorage See Coast Pilot

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 6 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None-Rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked

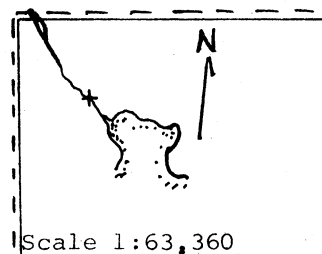
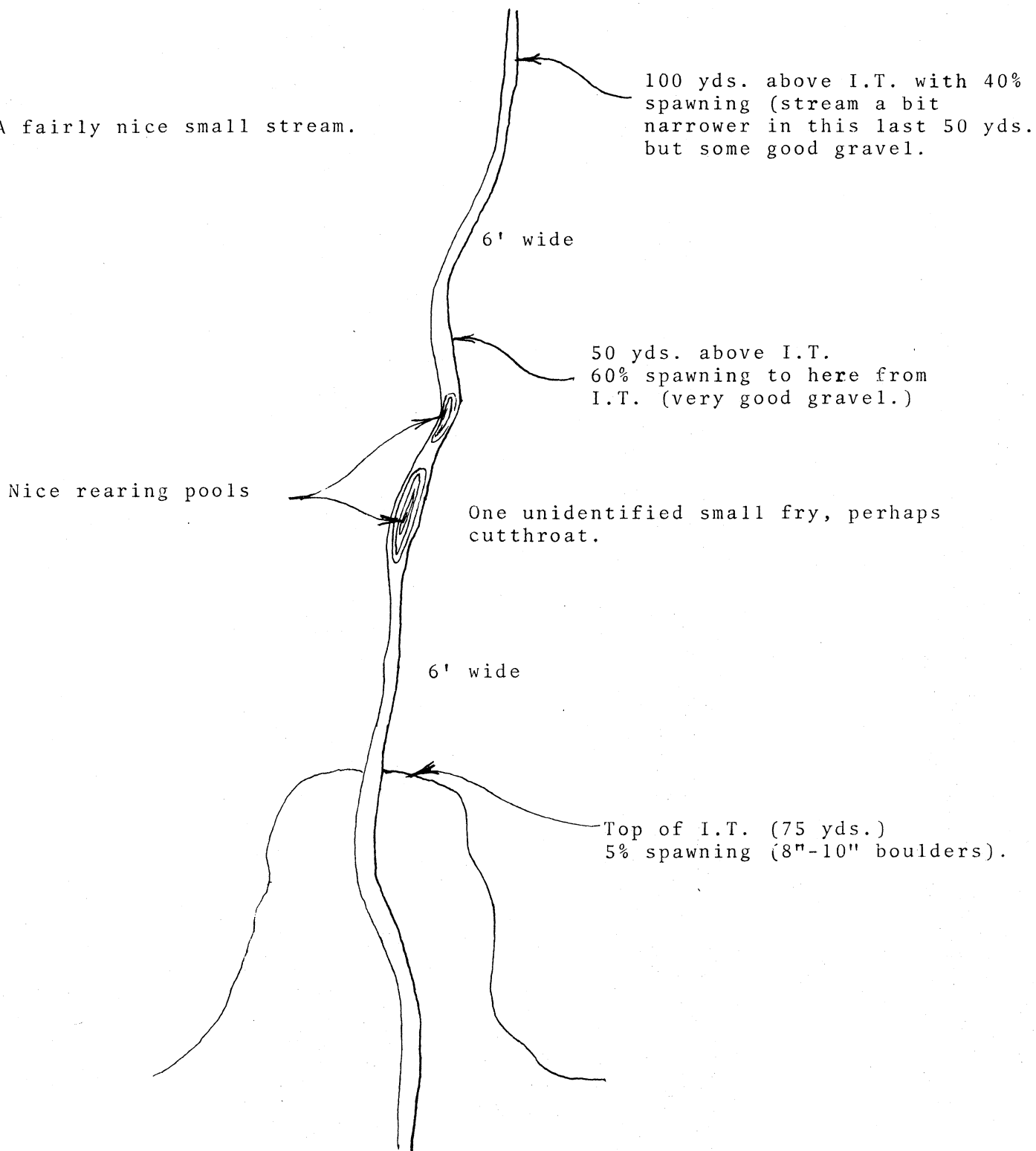
#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Bel grass present on what percent of flats	0

102-10-75

Narrows, gets brushy and  
swifter and potential drops  
fast.

A fairly nice small stream.



Name \_\_\_\_\_ Catalog No. 102-10-75  
Latitude 54°46'22" WR No. \_\_\_\_\_  
Longitude 132°14'16" K No. --  
Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
Location Head Bronson Bay Watershed Length \_\_\_\_\_  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Runoff and spring

Trails & Survey Routes Walk on stream

Aerial Survey Notes Too small to be feasible-heavy overstory

Anchorage See Coast Pilot

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 100 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None - rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

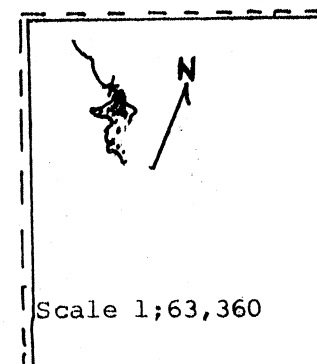
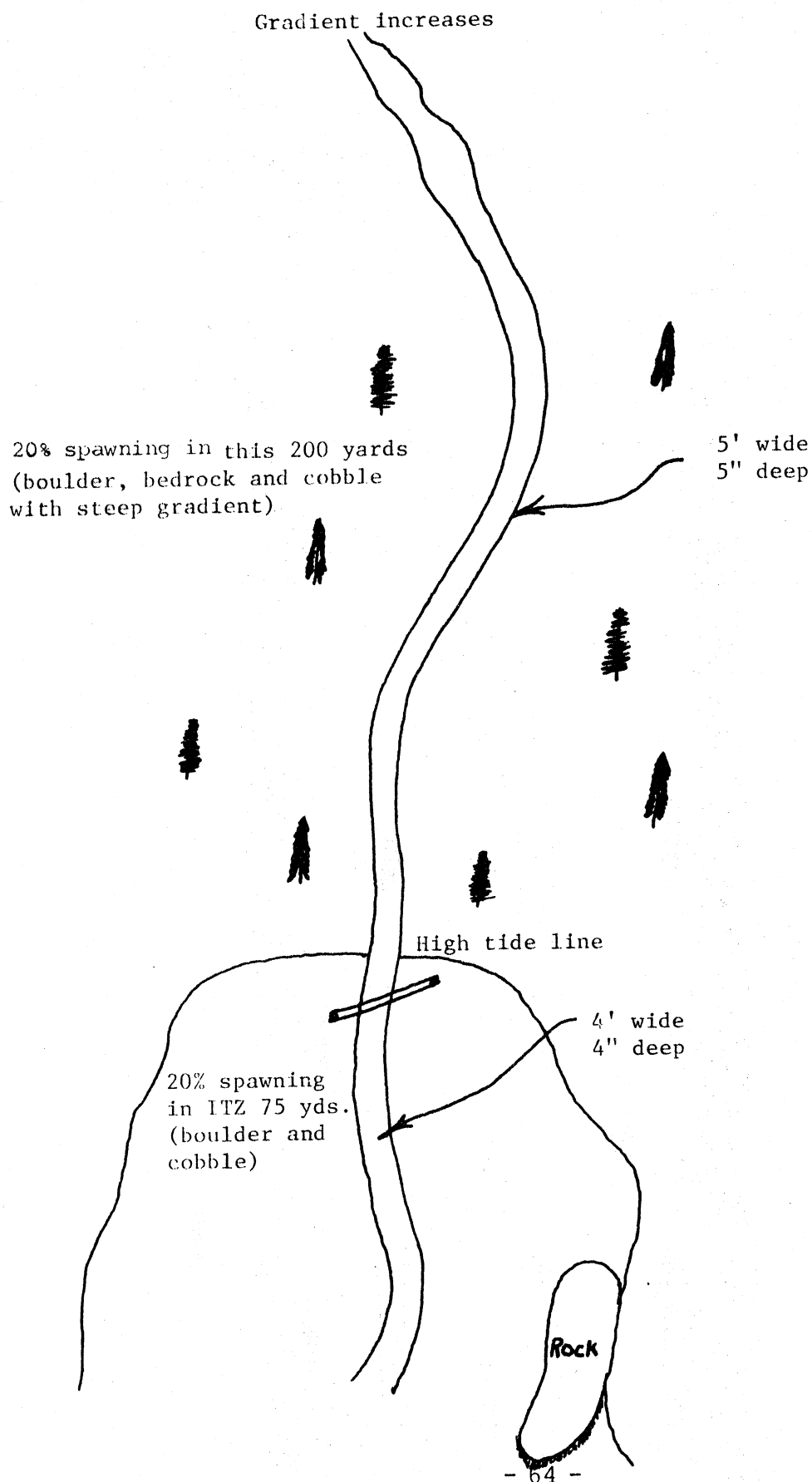
Rehabilitation Potential \_\_\_\_\_

Soils Stable to point walked

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

Head of bight below Hidden Bay  
102-20-01  
Elton  
5-28-74





Name \_\_\_\_\_ Catalog No. 102-20-01  
 Latitude N 54° 55' 41" WR No. -  
 Longitude W 131° 59' 23" K No. -  
 Geodetic Map No. Prince Rupert D-6 Work Area Ketchikan  
 Location Head of Bight below Hidden Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Runoff, springs

Trails & Survey Routes Walk in Stream

Aerial Survey Notes Not feasible

Anchorage Anchor in Kendrick Islands (see Coast Pilot)

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 77 M2

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

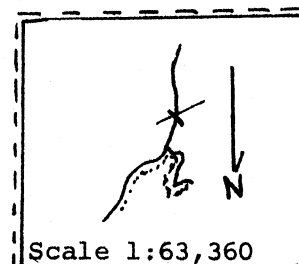
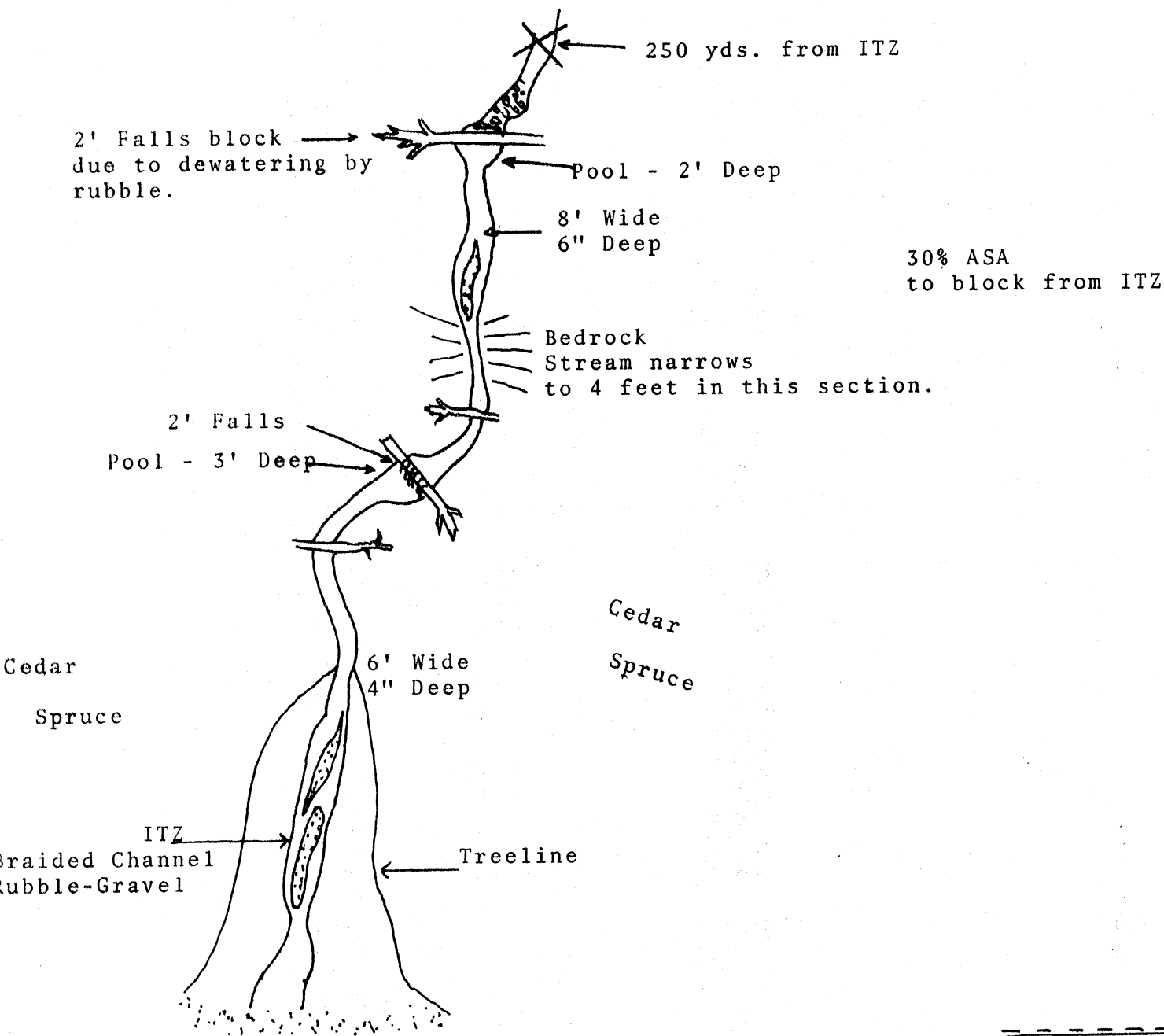
Soils stable

#### GAME RESOURCES

• Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-20-05  
Hidden Bay-South Head  
Novak  
May 28, 1974

An excellent small stream for coho rearing.  
50% of surveyed area is pools.  
May provide pink and chum spawning areas.



Name Hidden Bay-South Head Stream Catalog No. 102-20-05  
Latitude N 54°55'43" WR No. \_\_\_\_\_  
Longitude W 132°01'12" K No. \_\_\_\_\_  
Geodetic Map No. Dix. Ent. D-1 Work Area Ketchikan  
Location Hidden Bay Watershed Length .6 mile  
Drainage Area of Watershed .75 square miles  
Water Supply Type Runoff with springs

Trails & Survey Routes Walk up stream.

Aerial Survey Notes Impossible to survey from the air due to the overstory.

Anchorage Large vessel has to anchor out of Hidden Bay. Use skiff to survey. Many rocks and reefs associated with Bay.  
Tide Stage When Surveyed First half of Flood

#### FISHERY RESOURCES

Commercial Fisheries Coho, Pink

Escapement Unknown

Available spawning area - 146 M<sup>2</sup>

Species Composition Probably near 100% coho.

Timing Late

Schooling areas At mouth of creek and in the head of Hidden Bay.

Shellfish Potential Good clam producing flats at head of Hidden Bay.

Sport Fisheries Coho, Dolly Varden

Land Use at Present None

History of Land Use None

Rehabilitation Potential Unnecessary due to size of stream and possible enhancement.

Soils Stable

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers --	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

# STREAM INVENTORY FORM

Observers: Novak

Date: May 28, 1974

Temperature: 50°

Weather: Calm-Clear

Name: South Head-Hidden Bay

**Number:** 102-20-05

[illegible]

General Remarks (rehab., land use, barriers, log jams, etc.):

Hidden Bay - center of head  
102-20-07  
Downey  
5-28-74

300 yards above the top of the I.T.  
zone are two falls which are a fish  
block.

75 yds. of canyon and bedrock area.

A little debris in stream but not  
bad - easy to walk in stream.

At normal flow.

About low tide.

Spawning area for the entire stream = 40%

Poorer spawning area as you progress upstream.  
More pools, traces of bedrock and larger  
gravel (2" - 8").

Debris pile - probably a barrier except at  
high flows.

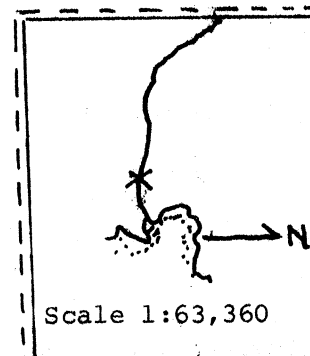
Small tributary

125 yards of open and grassy area -  
good gravel here = 1" - 3". Stream  
here looks good with 90% spawning area.

14' wide & 5"-6" deep

50 yds of slow  
water area

200 yards of I.T. area.  
Composed mostly of larger  
boulders and is very mossy  
5% spawning area here.



Name \_\_\_\_\_ Catalog No. 102-20-07  
Latitude N 54° 55' 52" WR No. \_\_\_\_\_  
Longitude W 132° 01' 37" K No. 126  
Geodetic Map No. Dixon Ent. D-1 Work Area Ketchikan  
Location Hidden Bay - center of head Watershed Length 1.5 miles  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Precipitation, spring.

Trails & Survey Routes A little debris in the stream but not bad - easy to walk in the stream.

Aerial Survey Notes Too small to survey above the I.T.Z.

Anchorage Pretty rocky getting in here. Would probably run to either the Kendrick Island or Menefee anchorage. Refer to the Coast Pilot.

Tide Stage When Surveyed About low tide.

#### FISHERY RESOURCES

Commercial Fisheries Pink and chum

Escapement 100 pink and 200 chum on 9-21-30: 2700 pinks on 9-5-57

Available spawning area - 780 M<sup>2</sup>

Species Composition 95% pink and 5% chum

Timing Middle

Schooling areas Off the mouth.

Shellfish Potential Fairly good flats here and could have some shellfish potential.

Sport Fisheries None - too small : may accomodate a few trout or steelhead.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None - pretty steep just above falls area.

Soils Stable to the point where I stopped.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	<u>0</u>
	Number of droppings	<u>0</u>
Geese -----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mallards ----	Number seen on tide flats	<u>0</u>
	Number seen up creek	<u>0</u>
	Number of broods seen	<u>0</u>
Mergansers -	Number of broods seen	<u>0</u>
Bald Eagles--	Number seen along creek	<u>0</u>
	Number of nests seen and location	<u>0</u>
Seals -----	Number seen at mouth of stream	<u>0</u>
Tide flats -	Estimate length along beach	<u>        </u>
	Estimate depth out from beach	<u>        </u>
	Eel grass present on what percent of flats	<u>        </u>

## PEAK ESCAPEMENT RECORD

NAME: Hidden Bay

STREAM CATALOG NUMBER: 102-20-07

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 26, 1970	N.O.			Vis. poor (A)

- 71 -

102-20-08  
East head of Hidden Bay  
Novak  
5-28-74

Subsurface  
flow →  
Barrier → 250 yards  
above ITZ

8' wide  
6" depth

Excellent coho rearing stream  
with 50% pool - riffle.

Available spawning area 25%

4' wide bed-  
rock

V - Notched

Pool

2' falls

3' deep

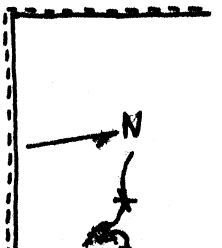
Pool

CEDAR  
HEMLOCK

6' wide  
4" deep

Treeline  
I.T.Z.

Braided,  
rubble - gravel





Name Head of Hidden Bay (East Side) Catalog No. 102-20-08  
 Latitude N 54° 55' 43" WR No. -  
 Longitude W 132° 01' 11" K No. -  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan - District II  
 Location Hidden Bay Watershed Length 1 mile  
 Drainage Area of Watershed 1<sup>2</sup> mile  
 Water Supply Type Springs, runoff

Trails & Survey Routes Walk either bank for easiest access.

Aerial Survey Notes Small stream that has a dense canopy.

Anchorage Small boat or skiff may be anchored off beach on west side of stream.

Tide Stage When Surveyed First half of flood

#### FISHERY RESOURCES

Commercial Fisheries Coho rearing - pink and chum

Escapement Unknown Available spawning area - 139 M<sup>2</sup>

Species Composition Unknown

Timing Middle

Schooling areas Unknown, but probably off east side of head in 4<sup>2</sup> - 6 fathom area.

Shellfish Potential Unknown, but crab fishery may be present in the innermost areas. Clams present on gravel flats.

Sport Fisheries Unknown, possible Dolly Varden, cutthroat with limited coho.

Land Use at Present None

History of Land Use None

Rehabilitation Potential None necessary as windfall in stream acts for pool creation.

Soils Stable at the present time but if land use should occur in upper watershed potential high erosion problems.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	150 yds.
	Estimate depth out from beach	10
	Eel grass present on what percent of flats	0

Observers: Novak  
Date: 5-28-74

Name: East Head of Hidden Bay.  
Number: 102-20-08

Station No.	1
Pool Size/Type	1/2
Riffle Type	6' w 6" d
Width - Depth	
Pool Riffle Frequency	2
Bottom Type (Riffle)	5-4
Color/Turbidity	1
Velocity	2
Flow (C.F.S.)	2
Temp. (°F.)	48°
pH	6
Fry Abundance	
Benthos Sample No.	
Higher Plant Class	3
Aquatic Veg. Density Ident.	2
(1) Mosses (2) Algae	1-2

General Remarks (rehab., land use, barriers, log jams, etc.):

As noted on the map, two falls exist with the uppermost serving as a barrier. The water flow becomes subsurface above this barrier therefore, no rehab. is necessary to enhance the fishery potential. Cedar is of commercial grade with hemlock. Small quantities of spruce found on lower watershed.

## PEAK ESCAPEMENT RECORD

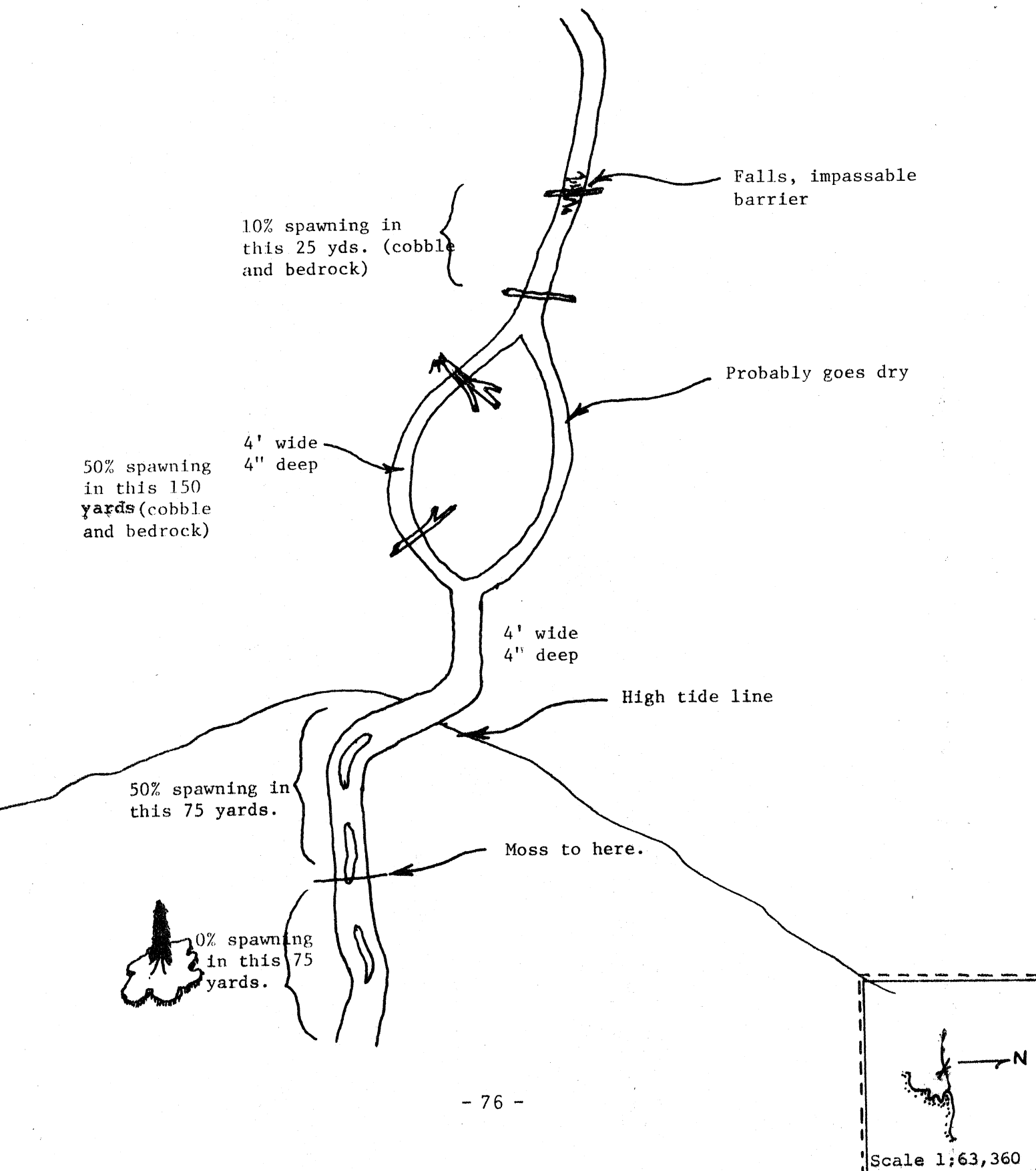
NAME: Hidden Bay, Center Head

STREAM CATALOG NUMBER: 102-20-08

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Sept. 21, 1930	100	200		Good. (G)
Sept. 5, 1957	2,700	0		Few off mouth (G)

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North Shore Hidden Bay  
102-20-09  
Elton  
5-28-74



Name \_\_\_\_\_ Catalog No. 102-20-09  
 Latitude N 54° 56' 25" WR No. -  
 Longitude W 132° 01' 02" K No. -  
 Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
 Location N. Shore of Hidden Bay Watershed Length \_\_\_\_\_  
 Drainage Area of Watershed \_\_\_\_\_  
 Water Supply Type Spring and runoff

Trails & Survey Routes Walk in stream

Aerial Survey Notes Not feasible.

Anchorage See Hidden Bay in Coast Pilot

Tide Stage When Surveyed Flood

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - I.T. & 1st section - 135 M<sup>2</sup>, 2nd section - 3 M<sup>2</sup>

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None (rocky)

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable to point walked.

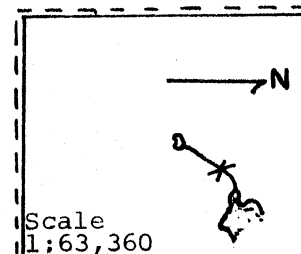
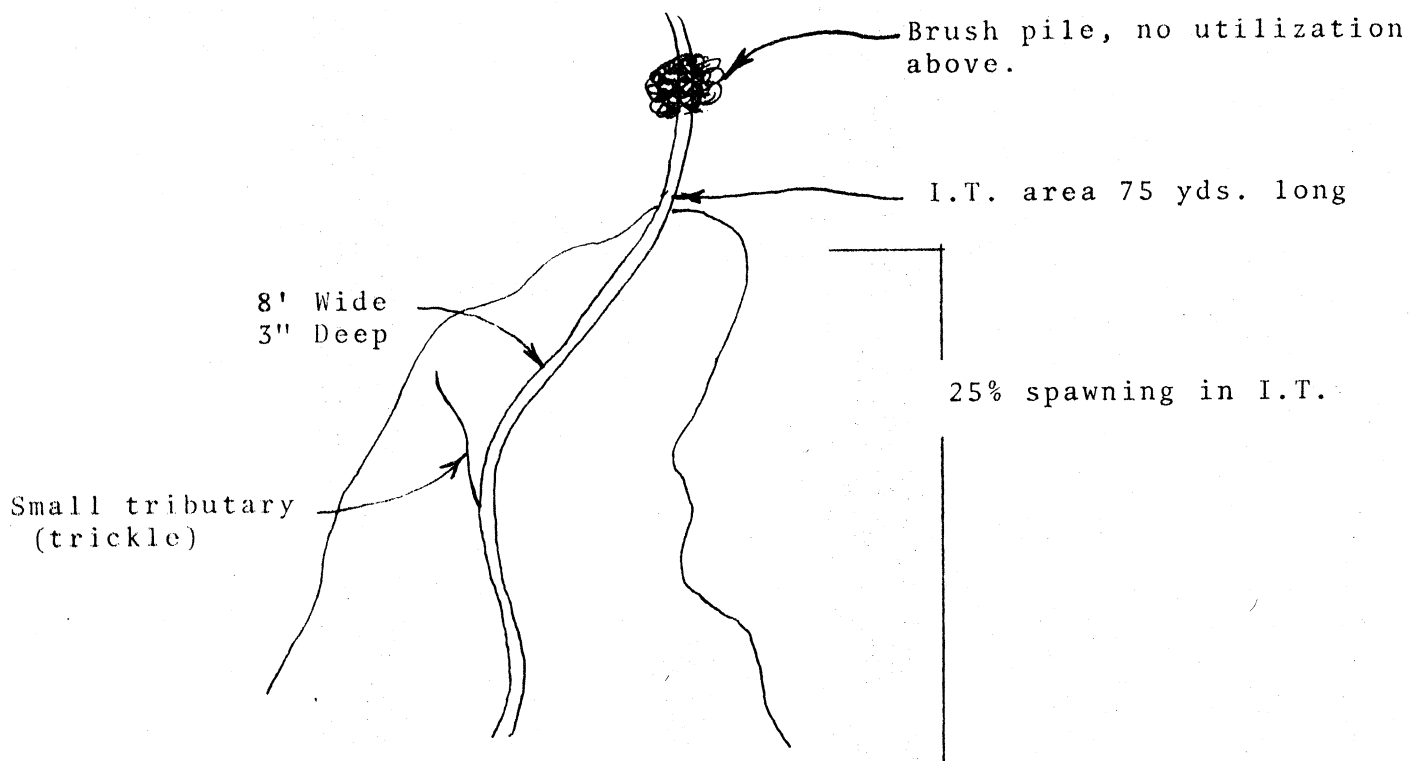
#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles-	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	0

102-20-18  
Head Ingraham Bay  
Downey  
May 30, 1974

Not much of a stream and not much potential.  
Spawning in I.T. zone at normal or slightly  
less than normal flow.

Water temperature 50°



Name \_\_\_\_\_ Catz/log No. 102-20-18  
Latitude 54°57'5" WR No. \_\_\_\_\_  
Longitude 132°04'10" K No. \_\_\_\_\_  
Geodetic Map No. Dixon Entrance D-1 Work Area Ketchikan  
Location Head of Ingraham Bay Watershed Length \_\_\_\_\_  
Drainage Area of Watershed \_\_\_\_\_  
Water Supply Type Spring and runoff

Trails & Survey Routes Walk along stream

Aerial Survey Notes I.T. is only spawning area-can do easily by air.

Anchorage See Coast Pilot and Navigational Chart

Tide Stage When Surveyed Low

#### FISHERY RESOURCES

Commercial Fisheries No data

Escapement Available spawning area - 42 M2

Species Composition No data

Timing No data

Schooling areas No data

Shellfish Potential None-rocky

Sport Fisheries No data

Land Use at Present None

History of Land Use None

Rehabilitation Potential None

Soils Stable in I.T.

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers -	Number of broods seen	0
Bald Eagles--	Number seen along creek	0
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	-
	Estimate depth out from beach	-
	Eel grass present on what percent of flats	-

NAME:

STREAM CATALOG NUMBER: 102-20-18

DATE	PINK	CHUM	OTHER SPECIES	REMARKS
Aug. 26, 1970	N.O.			Vis. poor- cloudy (A)



102-20-19  
Ingraham Point Head  
Novak  
May 30, 1974

H<sub>2</sub>O Temp. 58°

Coho fry/Dolly Varden seen  
in lake and stream.

An excellent coho  
rearing stream.

200 yds. Above  
the ITZ  
#1

50% ASA

Cedar, Hemlock

Alder

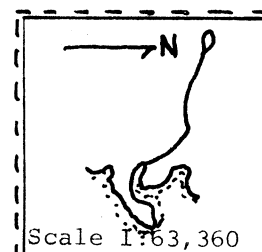
Sluggish Velocity

15' Wide  
6" Deep  
Algae growth heavy on rock

ITZ → Rubble bottom

Ingraham  
Point  
Bay

- 81 -



Name Ingraham Pt. Bay-Head Stream Catalog No. 102-20-19  
 Latitude \_\_\_\_\_ WR No. \_\_\_\_\_  
 Longitude \_\_\_\_\_ K No. \_\_\_\_\_  
 Geodetic Map No. Dix. Ent. D-1 Work Area Ketchikan  
 Location \_\_\_\_\_ Watershed Length 1/2 mile  
 Drainage Area of Watershed .5 square mile  
 Water Supply Type Muskeg lake and runoff with springs.

Trails & Survey Routes Walk up the stream

Aerial Survey Notes Stream is small and will be impossible to survey due to canopy and water coloration.

Anchorage Small skiff may anchor off mouth of stream.

Tide Stage When Surveyed First half of flood.

#### FISHERY RESOURCES

Commercial Fisheries Coho and possible chums and pink. Sockeye may use this system.

Escapement Unknown

Available spawning area - 418 M<sup>2</sup>

Species Composition Unknown

Timing Late

Schooling areas Head of the bay off mouth if run occurs.

Shellfish Potential None

Sport Fisheries Dolly Varden, Coho, Cutthroat

Land Use at Present None

History of Land Use None

Rehabilitation Potential None necessary but logjam at lake outlet could be removed.

Soils Stable

#### GAME RESOURCES

Bear -----	Fish carcasses or bones (old or fresh) on banks, estimate	0
	Number of droppings	0
Geese -----	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mallards ---	Number seen on tide flats	0
	Number seen up creek	0
	Number of broods seen	0
Mergansers --	Number of broods seen	0
Bald Eagles--	Number seen along creek	1
	Number of nests seen and location	0
Seals -----	Number seen at mouth of stream	0
Tide flats -	Estimate length along beach	0
	Estimate depth out from beach	0
	Eel grass present on what percent of flats	0

Observers: Novak

Date: May 30, 1974

Temperature: 6.0°

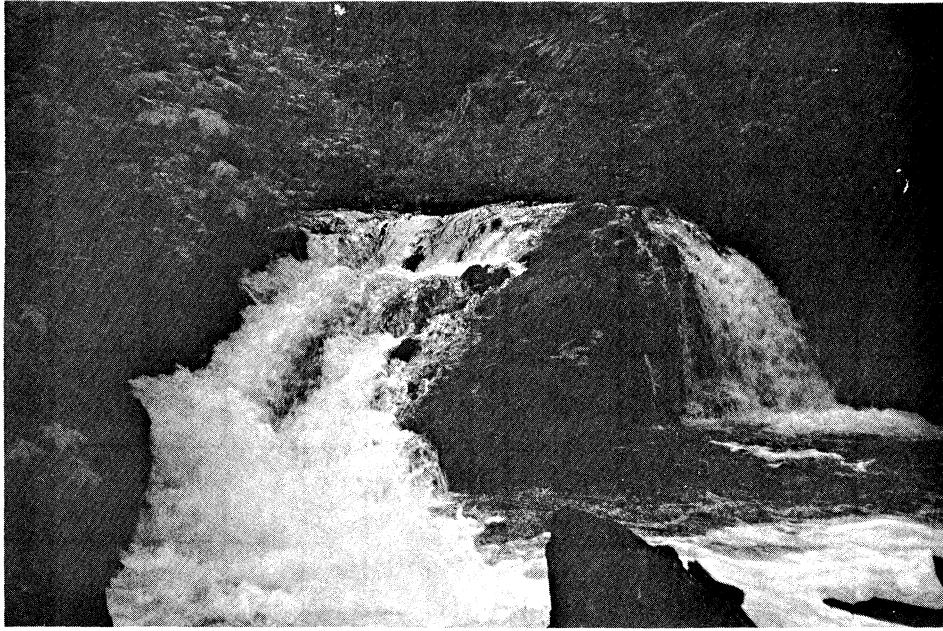
Weather: Clear

Name: Ingraham Point Bay-Head

Number: 102-20-19

Station No.	1
Pool Size/Type	3/2
Riffle Type	15'-W
Width - Depth	6"-D
Pool Riffle Frequency	2
Bottom Type (Riffle)	5-4
Color/Turbidity	2
Velocity	1
Flow (C.F.S.)	2
Temp (°F.)	58°
pH	5
Fry Abundance	1-8 2-2
Benthos Sample No.	-
Higher Plant Class	3
Aquatic Veg. Density Ident.	1
(1) Mosses (2) Algae	2

General Remarks (rehab., land use, barriers, log jams, etc.): This stream is atypical of S.E. Alaska. No fish barriers, but a log jam is present near the lake outlet. Sockeye may use this system and types as the muskeg lake is only a few feet above the high tide line. this will be checked.



Dolomi Creek Falls

## ACKNOWLEDGMENTS

Gerry Downey, Pink Salmon Research, provided much of the foot work during field surveys. The catalog library was kept current with the assistance of Sharon Peterson and Karen Crandall. Thanks is also extended to G.L. Finger, June Grant and J.C. McMullen for their assistance in publication and planning.



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